

# HANDBOOK FOR INDIAN STUDENTS

A Guide to the Facilities  
for University and Professional  
Studies and Training in  
the United Kingdom

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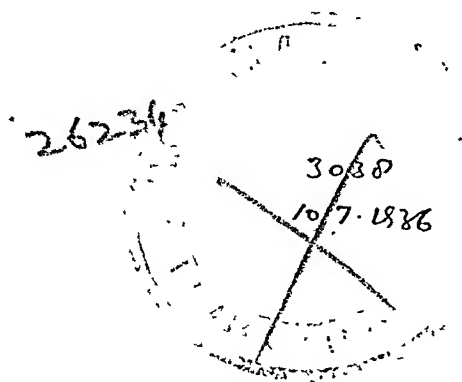
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At *Edinburgh* there is an Advisory Committee for Indian Students, and J. E. Mackenzie, Esq., Ph.D., D.Sc., Reader in Chemistry, King's Buildings, has been appointed Adviser to Indian Students by the University Court.

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PESHAWAR ... ..	T. C. ORGILL, Esq., M.A., I.E.S.	University Students Advisory Committee, Peshawar, N.W.F.P.

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# Form of Application for admission to a University or other Educational Institution in the United Kingdom.

1. Full name (in capitals) ... ..
2. Date of birth ... ..
3. Father's (or guardian's) name, address and position or profession, stating, in the case of a guardian, exact relationship to applicant.
4. Religion; if Christian, state whether Roman Catholic, Protestant, or Syrian.
5. Vernacular ... ..
6. Are you in Government Service ... ..  
*An applicant in Government Service proceeding abroad either on Deputation, Study Leave, or Leave must forward this application through the correct official channels.*

## 7. Education in India:—

### (i) *Matriculation or School-leaving Examination:\**

- (a) *Name of University or College*
- (b) *Date when taken* ... ..
- (c) *Full particulars of all subjects passed.*

† The original certificate should be sent together with a certified statement by the University Registrar of the subjects passed in the Matriculation or School-leaving Certificate Examination.

### (ii) *Intermediate Examination:*

- (a) *Name of University or College*
- (b) *Date when taken* ... ..
- (c) *Class obtained* ... ..
- (d) *Full particulars of all subjects passed.*

† The original certificate should be sent together with a certified statement by the University Registrar of the subjects passed and the marks obtained in the Intermediate Examination.

\* Any Indian School-leaving Certificate submitted, which entitles the holder to Matriculate in an Indian University, should be officially endorsed to that effect. If an Oxford or Cambridge School Certificate Examination has been taken, the subjects passed *with credit* should be stated, as well as the Examination Roll Number and the Indian Centre at which the examination was taken.

† If the official University degree diploma or intermediate certificate be not available when this form is forwarded, a provisional certificate containing these particulars and signed by the University Registrar should be sent; the official diploma or certificate should be forwarded as soon as received.

(iii) *Degree Examination :*

- (a) *Name of University or College*
- (b) *Date when taken* ... ..
- (c) *Class obtained* ... ..
- (d) *Honours in* ... ..
- (e) *Full particulars of all subjects passed.*

\* The original Diploma or certificate should be sent together with a certified statement by the University Registrar of the subject passed at the Final Examination.

(iv) *Postgraduate Examinations :*

- (a) *Degree* ... ..
- (b) *Name of University or College*
- (c) *Date when taken* ... ..
- (d) *Class and/or Honours obtained*
- (e) *Full particulars of all subjects passed.*

## 8. Any other qualification or Training obtained :

- (a) *Name of University, College or other Institution.*
- (b) *Date when taken* ... ..
- (c) *Class and/or Honours* ... ..
- (d) *Full particulars of all subjects passed.*

9.—(a) Proposed subject of study in the United Kingdom and degree or qualification desired. The exact subject or subjects should be stated, as it is insufficient to specify "Arts," "Science," "Engineering," &c.

(b) Applicants desiring to pursue a degree or diploma course in Education should give details and length of teaching experience and attach relevant certificates.

10.—(i) University or College in United Kingdom to which admission is desired.

(ii) Alternative Universities or Colleges, in order of preference, in case admission is not obtainable as requested above

11. If you have already made application to an Educational Institution or to Institutions in this country, please give particulars.

\* If the official University degree diploma or intermediate certificate be not available when this form is forwarded, a provisional certificate containing these particulars and signed by the University Registrar should be sent: the official diploma or certificate should be forwarded as soon as received.

12. Proposed period of stay in the United Kingdom, and date when admission is desired.
13. If it is desired that an application be made on your behalf for exemption from the Matriculation or other Entrance examination of the selected University or College, the Intermediate Certificate and List of Marks and/or Final Degree Certificate in **original** and the necessary fee should be enclosed.
14. If exemption is desired from any part of the degree or diploma course the grounds on which your application is based should be definitely stated, and the necessary degree or diploma certificate in **original** attached.
15. Knowledge of Latin\* or Oriental Classical Language? In the case of a knowledge of Latin, a certificate should be submitted showing the standard obtained.
16. Knowledge of French or German† ...
17. Particulars of part played in School and College life (e.g. Sports, Boy Scouts, Debating Societies, &c.)
18. Health and physique ... ..

Applicants are strongly advised to undergo a thorough medical examination before leaving India, in order that they may be fully satisfied they are able to stand the English climate.

19. Annual allowance available, and for how many years.

Students should note that Universities and Colleges in this country often require satisfactory evidence that a candidate for admission is in a position to provide for the necessary fees and living expenses, &c., during the whole period of his proposed course of study or training. It should especially be noted that for the Universities of Oxford and Cambridge an annual allowance of at least £350 should be provided. The attached form of Financial Guarantee may accordingly be completed for submission to the University or College concerned.

\* Applicants for admission to one of the Inns of Court are reminded that, unless they have already obtained an approved degree in India, they will have to pass in Latin in the examination by which they propose to qualify for admission.

† A knowledge of at least one modern European language, usually French or German, is required for admission to certain degree courses at the Universities of the United Kingdom. Applicants are therefore advised to ascertain (e.g. by reference to the relevant *University Regulations* or the *Handbook for Indian Students*) whether these requirements are part of the course they desire to pursue. If such be the case applicants should make arrangements to be taught at least one of these languages while in India, and to send with this application a certificate from a competent authority testifying to at least a good reading knowledge of the selected language.

20. Testimonials attached from (1) ...  
 (2) ...  
 (3) ...  
 (4) ...

One of these testimonials should be from the Head of the College or other Educational Institution at which the applicant is studying.

21 Additional information for Post-graduate and Research applicants:—

- (1) *Proposed branch of research* ...  
 (2) *Precise subject of proposed research.*  
 (3) *Previous research experience, if any.*

(The fullest possible reply should be sent to these questions and certificates **in original** from competent authorities testifying as to fitness to undertake proposed research should be enclosed, as well as copies of any original publications.)

Signature.....

Full address.....

Date.....

**Financial Guarantee** (referred to in Question 19).

I hereby declare that I am prepared to meet the educational expenses of my son/daughter/ward and to provide him/her with not less than £ per annum, paid in regular instalments over a period of years.

Signature.....

Date .....

*Copies of this Form of Application can be obtained from and should be submitted through the appropriate University Information Bureau or Local Advisory Committee (see page iv).*

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# INTRODUCTION

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*The thanks of the High Commissioner are due to the Authorities of the Universities, Colleges, and professional bodies throughout the United Kingdom for their kindness and courtesy in verifying, and thus ensuring the accuracy of, the information relating to their respective institutions.*

## **INTRODUCTION.**

### **Preliminary Note.**

This Handbook is intended for the use of Indian students who wish to come to Great Britain for study or training, either academic or technical. It is devised as a general guide to help the enquirer to form some idea as to the course of study which he desires to pursue, of the institutions where such a course may be taken, and of the approximate expense. A general account is given of the educational facilities available in the Universities and technical Institutions of this country, of the necessary preliminary qualifications required, and of the various concessions and exemptions which may be secured in virtue of qualifications already obtained in India. But the Handbook is not to be taken as a substitute for the calendars or detailed prospectuses of the desired Institution, which should always be consulted before a final decision is made.

### **Necessity of obtaining exact Information before leaving India.**

Too much emphasis cannot be laid upon the importance, and indeed necessity, of obtaining detailed and precise information before the student leaves India. Much time and money has been wasted by students who, relying perhaps on meagre and insufficient information, have come to this country only to discover that the special facilities they desired were not in their case immediately available, or that they have arrived at a time unsuitable for beginning a course, or that their preliminary qualifications are inadequate, or that they are not yet in a position to comply with some essential rule or regulation of the institution to which they seek admission. The only way to avoid these difficulties is to obtain reliable information beforehand, so that all necessary arrangements for admission to the University or College may be made before the student leaves India.

### **Date of Arrival in England.**

The first point to be noted is that practically every University, College, or School in Great Britain begins its academic year in September or October. Owing to ignorance of this fact, a student sometimes arrives at other times in the year, say in December, February, or April, and even though he may, in exceptional circumstances, secure admission at once to a University, his work in that academic year will not, as a general rule, count towards the number of sessions' or terms' attendance required before a degree or diploma can be secured. On the contrary, he will probably have to



complete the full length of the course starting from the beginning of the *following* session in September or October, with the consequent waste of the intervening time. A student, therefore, once he has decided on his College and course of study, and has actually secured admission, should arrange to arrive in this country towards the end of August or early in September. This will allow him time to obtain lodgings, provide himself with clothes, books and other necessities, and thus to be in a position to commence his studies immediately the session begins.

### Application for Admission.

It is advisable that the first or preliminary enquiries should be made not later than February or March of the year in which it is desired to secure admission, though it should always be borne in mind that the earlier an application is made by a suitably qualified student for admission in any particular year, the better will be its chance of success.

To assist students to obtain detailed information and to secure an offer of admission, University Bureaux and Advisory Committees (of which a list is given on page iv) have been established in India.

The calendars and prospectuses of British Universities, Colleges, &c., may be consulted at the office of each University Bureau and Advisory Committee in India, and a student intending to come to Great Britain may thus make himself acquainted with the exact regulations governing the special course or scheme of study he desires to pursue.

These Bureaux and Committees are in direct touch with the Office of the High Commissioner for India in London, which will furnish further and additional information whenever required. They will also advise intending students as to the form in which an application should be drafted, the necessary guidance may be needed. Applications initiated in India will be forwarded to the Office of the High Commissioner (Education Department), from which they will be sent to the Institutions to which admission is desired; at the same time, efforts will be made to secure any exemptions or concessions as the student's previous qualifications may warrant. Students will be well advised, when making applications for admission to British Universities or Colleges, to give several alternative choices, so that in case the application to one particular institution is not accepted, it will be possible to take immediate steps to secure admission elsewhere without further reference to India.

It may appear that direct application to the University concerned may save time, but experience has shown that in

the long run more time is saved if the Bureaux or Advisory Committees in India, and, through them, the Office of the High Commissioner in London, are consulted. In this way a student can ensure that his application for admission contains full information and is accompanied by the necessary certificates, either in original or in duplicate, in the absence of which it could only receive preliminary consideration, whilst further, and perhaps repeated, references to India might be necessary before the University found itself in possession of all the desired facts. Correspondence between the University and the student applying for and obtaining detailed information, point by point, is avoided, and a definite ruling and decision is usually obtained from the University much quicker than would otherwise have been the case. Any application, therefore, should always include full information of the course of study contemplated and of the preliminary qualifications of the applicant, and should be accompanied by all necessary certificates either in duplicate or in original; if in duplicate, they should be duly certified as "true copies" by a competent authority. A specimen application form, copies of which may be had from the Secretary to the University Bureau or Local Advisory Committee, will be found on pages ix to xii.

With regard to Oxford and Cambridge, it is especially important to note that applications should be forwarded as early as possible. At these Universities there is always a long waiting list of applicants, already in many cases fully qualified for admission, and this is usually circulated for the consideration of the various Colleges in March and April of each year. Moreover, it is to be remembered that a large number of students desiring admission to Oxford or Cambridge send in their applications at least one year ahead, and in many instances even two or three years. At most of the Universities and Colleges in this country the number of applications usually exceeds the number of vacancies available, and the earlier an application is submitted (provided that the educational and other qualifications are satisfactory) the better the chance of success.

It is especially important that Indian graduates who are desirous of taking post-graduate or research courses, or even when exemption is required from a portion of the ordinary degree course, should submit their applications at a very early date. At most Universities all such applications are considered individually by the appropriate Board or Committee of the University and must be submitted on a prescribed form with certain prescribed evidence and be accompanied by (in the case of research applicants) definite evidence of qualifications and ability to undertake the proposed research or advanced work, and copies of any original publications. At the Universities in this country there is a long vacation extending from June to early October, during which period the Committees or Boards

which consider the applications do not meet, and in consequence decisions on applications submitted later than May cannot, as a general rule, be obtained until towards the end of October, that is, after the University Session has actually begun. As it is desirable that students intending to come to this country should know before they leave India precisely the course to which they will be admitted and the concessions which they may be granted, it is necessary that full application on the appropriate form, &c., should be received at the latest by 30th May.

### Name and Age.

*Applicants are warned that delay and inconvenience are likely to result if they submit their applications under, or adopt when they arrive here, a name different from that which appears on their Indian degree or other certificates or on their passport. If for any reason it is necessary to adopt a variant form or spelling, the applicant should send or bring with him a statement signed by some responsible authority certifying that the form of name which the applicant has adopted is a recognised variant of that which appears on his certificates or passport. Similarly, applicants should be in possession of authoritative evidence of age in addition to the passport.*

### Preliminary Qualifications.

For admission to a University degree course, a student must either have passed the matriculation or equivalent entrance examination of the desired University, or be able to obtain exemption therefrom in virtue of a qualification already obtained in India.

As a general rule, all Universities accept a degree of an Indian University as exempting from the matriculation examination, and many Universities accept also the Intermediate of an Indian University. For details of the various matriculation and entrance examinations see Section I of this Handbook.

Students are strongly urged not to come to Great Britain until, by passing at least an Indian Intermediate examination, they have qualified themselves for admission to a University. If, however, this is not practicable, it should be recognised that a student who comes without this preliminary qualification will probably have to spend an extra period in this country whilst preparing for an entrance examination. Students who have not already reached the English matriculation standard should arrive at least nine months before the date on which they propose to take the examination.

The above remarks apply in the main to Universities only. But when professional institutions are concerned, it is all the more important to ascertain exactly the preliminary requirements. For instance, many students have been compelled to waste much valuable time owing to their failure

to bring the necessary certificates\* for submission with their applications for admission to one of the Inns of Court. It should be remembered, moreover, that Universities and educational institutions in this country rarely or never grant any exemption as a mere matter of form or as a "right" to which a student is necessarily entitled; all such applications or claims are, as a general rule, considered on their individual merits, and it is never safe for a student to assume, without definite reference to the institution concerned, that he is "entitled" to a certain concession or exemption merely because he is in possession of certain qualifications.

### Expenses of Living.

The expenses of living in this country should also be carefully considered. As a general rule it should be recognised that it is hardly possible for an Indian student to maintain himself in Great Britain in the same way as his fellow English students on an income of less than £200† per annum (excluding fees). In addition, allowance should be made for a preliminary outfit (clothes, &c.) at a cost of about £30. It might here be pointed out that it is not advisable for a student to make large purchases of clothes in India. He will be better able to decide his requirements after his arrival, whereas a student who has purchased a complete outfit in India may find himself compelled to discard most of it as unsuitable, and to spend a further amount in this country. He should, therefore, only provide himself with sufficient clothes for the voyage and for the first week or two after his arrival in England.

In the case of Oxford and Cambridge, a student going to either of these Universities should be prepared to spend not less than £350 to £400 per annum. Even a non-collegiate student may lose a great deal of the advantages to be gained from the corporate and social life of the Universities if he comes with less than £300 (*see also* pages 48 and 133).

For students, other than those at Cambridge or Oxford, the following estimate of expenditure may serve as a useful guide:—

Board and lodgings, from £2 a week upwards.

Pocket money, including travelling, laundry and luncheons,  
£1 a week or more according to circumstances.

Clubs and societies' subscriptions, £4 to £10 per annum.

Books and instruments, £10 per annum.

Clothes, £10 to £15 per annum.

Holidays, £10 to £15 per annum.

Emergencies and incidentals, £10 per annum.

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\* See page 351.

† This figure may be regarded as the average required by a young student in London: older and more experienced students might manage on less, especially if they are at one of the provincial Universities.

The lower figures given in the above estimate represent the bare minimum which may suffice for a student who is careful and used to rigid economy in personal expenses, but each individual should decide for himself according to his means as to how much he is to spend on the various items of expenditure. The College or University fees, on the other hand, naturally vary according to the institution selected and the course of study to be pursued; full particulars will be found in the relevant sections of the Handbook.

### Women Students.

Indian women students are now coming to this country in increasing numbers for University and professional education, and whilst the general remarks given above are in large measure equally applicable to them, it may be useful to add a few special considerations. First of all, it is assumed that the many difficulties in the way of securing their admission to Universities, Colleges, Medical Schools, &c., in this country are fully recognised by parents and guardians in India, and it is perhaps scarcely necessary to say that the most definite arrangements should always be made before the student leaves India, not only in regard to her admission to a suitable University, College or School, but also for her residence in a hostel (if such is attached to the particular institution concerned) or with a suitable private house where she can live as a member of the family. Students residing in college hostels may be required to make other arrangements for their residence during Vacations, especially the Summer Vacation, but the authorities of the College concerned will usually give the necessary help and advice in this matter. Addresses of suitable accommodation both during term and vacation times can be obtained through the Office of the High Commissioner for India (Education Department) and students can be helped and advised with regard to holidays both in England and on the Continent.

The figures given above as to the cost of living in this country should be taken as an absolute minimum in the case of women students, for even if they reside in College hostels during term-time they will still have to provide for their expenses during vacations, a total of from four to five months each year.

As a general rule, women students would be well advised to arrive in this country not later than the end of August to enable them to become acclimatised, to some extent at least, before the commencement of the academic year in October. During their first term they will then be less likely to suffer, as has often been the case, from illness due to change of climate and conditions generally. If sufficient notice is given beforehand arrangements can be made for meeting women students on their arrival in this country, and for their accommodation in recommended hostels or with private families.

## **Students placed in the charge of the High Commissioner.**

It has been found that many Indian parents or guardians sending their sons, daughters or wards to this country are anxious to place them under the care of some lady or gentleman resident here, who can look after them, give them good advice on the many and varied difficulties with which from time to time they find themselves confronted, and help them to arrange and keep their expenditure within the limits of their allowances. Sometimes it is possible to make a satisfactory arrangement with private individuals in Great Britain, but when this cannot be done such students may be placed in the charge of the High Commissioner for the purpose of their education in this country. If the student is to reside in Glasgow or Manchester this duty can be undertaken by the Local Advisers there, or if in Edinburgh, by the University Adviser, all of whom are members of the University staff. The main object of this arrangement is to take charge of the remittances received on behalf of the student, and to disburse to him a regular allowance fixed in accordance with an estimate of expenses drawn up and submitted to India for the approval of the parent or guardian. At the same time the student is given every possible assistance or advice he requires, and audited accounts of all money received and periodical reports on the health, work, and progress of the student are sent to the parent or guardian in India, to whom it is always open to terminate the arrangement if and when he so desires.

The Office of the High Commissioner (Education Department) is, moreover, willing to assist all students with advice both on educational and other matters, whether or no they have been placed in the charge of the High Commissioner.

## **Board and Lodging.**

Students proceeding to England are advised to notify to the Secretary, Indian Students' Accommodation Committee, of their anticipated date and hour of arrival in London, and should preferably confirm this by telegram from Marseilles, as it will then be possible for him to arrange for them to be met at the station, and for their temporary or permanent accommodation.

For permanent residence during the student's stay in England there are various possibilities to be considered: (a) residence with an English family; (b) residence in a college hostel (where such exists); (c) residence in lodgings or boarding houses.

The best advantages are of course to be gained from residence with a private family, which will usually enable a student to obtain first-hand experience of English home life and provide him with opportunities of making English friends, whose social pastimes and activities he will be able to share.

The next best alternative is a college hostel, if such exists, and if admission may be obtained. This is likely to be reasonably economical, and would give the young man a good opportunity of obtaining the advantages of close association with his fellow students. Where, however, no hostel accommodation is obtainable and the student cannot afford to stay with a family, he has still the alternative choice of a boarding house or lodgings.

In respect of full board residence with families who are prepared to accept Indian students as paying guests, from  $2\frac{1}{2}$  to  $4\frac{1}{2}$  guineas may be taken as an average charge.

Good lodging accommodation may be secured at reasonable charges, varying according to the locality and type required. For partial board residence, which includes bed, with dinner and breakfast on five days of the week and full board on Saturdays and Sundays, the charges vary from about 30s. to  $2\frac{1}{2}$  guineas per week, and for full board from 2 guineas to 3 guineas per week.

Particulars of families who are willing to take Indian students as paying guests and of boarding-houses or lodgings are kept by the Secretary, Indian Students' Accommodation Committee. At most Universities and Colleges a list of approved lodgings is kept and students in the first place should consult the Secretary or Registrar (in the case of the University of London, the Secretary to the University of London Lodgings Bureau, 42, Torrington Square, London, W.C. 1).

### **Tutors and Coaches.**

A list of tutors who are prepared to read with resident pupils for a University entrance examination, or for any other examination, or to coach students, either at the pupil's lodgings or the tutor's own rooms, is kept at the Office of the High Commissioner for India (Education Department). The fees of non-residential tutors vary from 7s. 6d. to 10s. 6d. per hour, according to the examination, subject and standard required.

A list is also kept of competent coaches who prepare students for the Indian Civil Service examination in the various subjects, the usual charge being 10s. 6d. an hour.

Lists of residential tutors, and of the subjects or examinations for which individual tutors are specially qualified to coach, are also kept. The average fee for residence and tuition is from 5 to 6 guineas a week. Fees are as a rule payable in advance, and a term's notice of withdrawal is usually required.

In the case of tutors resident in the country, excellent facilities for sports of various kinds are usually available.

### **Health.**

It cannot be too strongly insisted upon that no student should come to this country without having undergone a thorough medical examination; only in this way may parents or guardians

satisfy themselves that their sons or wards are strong enough to stand the climate. Moreover, it is to be remembered that the young student, after his arrival, has to accustom himself, not only to a climate which may try him severely in the early months—if not during the whole course of his stay—but also to a new mode of life which, in the majority of cases, will probably be very different from his life in India.

A student in England should also make a point of being medically examined periodically, to ensure that he is not being adversely affected by the conditions. Experience has shown that the danger of tuberculosis to Indian students in this country—due to the great change in the climatic conditions under which they have to live—is very real; every precaution should therefore be taken, and a student should join in sports and games and thereby obtain as much outdoor life and fresh air as is possible.

### Remittances.

There is one general consideration which ought perhaps to be specially brought to the notice of parents and guardians, and that is the vital necessity for the prompt and regular despatch of remittances. Many cases have been known where young men have been left stranded and destitute owing to delay in the arrival of their allowances. Such students are inevitably obliged to borrow from other students to meet their expenses, and the next remittance, when it does arrive, is utilised to pay the debts already incurred, with the result that in a very short time they again find themselves short of funds and are obliged to borrow once more. The habit of borrowing, once contracted, is not easily cured, and leads to all sorts of troubles.

### General Remarks.

To conclude this preface a few general remarks may be made on university and college life in this country and the advantages to be derived therefrom by an Indian student who is anxious and prepared to gain everything possible from his new environment. Though for some time after his arrival in this country he may feel himself a stranger in a strange land, it will to a large extent rest with himself if he does not, sooner or later, find himself quite happy and contented, and with ever-increasing opportunities of making new friends both in his college and elsewhere. He must realise therefore that something more than industry and concentration on his part is required; the training, whether in the lecture room, the laboratory or the workshop, is important, but it is not everything. In British university and college life, sport and social activities play a most important part, and the Indian student must be prepared and willing to cultivate the corporate life of his college—its debating and other societies, its recreation clubs,



and so on—so that all these receive their due share of his time and enthusiasm. The great value of university and similar training lies exactly in this, that, whilst a man is equipping himself efficiently for his chosen profession, he has abundant and excellent opportunities of gaining from daily contact and co-operation with his fellow students in the class-room or on the playing field those personal and social qualities on which real success in life so often depends. The difficulties and obstacles that sometimes stand in the way are not to be ignored—far from it; but they should not be found insuperable, as will be evidenced from the records of the unions and clubs in London, Oxford, Cambridge, Edinburgh, and elsewhere.

And the Indian student himself can do much to help matters in this respect. He must make up his mind to imbibe and assimilate as much as possible of his new life and environment; he must not be unduly sensitive and regard with suspicion or distrust any aspect of his college life which he does not at first quite understand; he must remember that the British student is often just as shy and reserved as he himself, and just as afraid of making advances. In a word, he must do what he can to identify himself with the common life of his college, to cultivate that *esprit de corps*, that spirit of loyalty and goodwill to his college and his fellow students which in itself will do much to ensure him happy years of university and college life as well as a valuable and personal equipment for the days of work and endeavour that are to follow.

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SECTION I

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UNIVERSITY ENTRANCE  
EXAMINATIONS

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## University of Bristol.

Candidates for matriculation shall be at least 17 years of age on the 1st of October of the year of their candidature.

The following shall be eligible for matriculation :—

(a) Graduates of Universities in the United Kingdom or of such other Universities\* as may be from time to time recognised by the Senate for this purpose.

(b) Holders of Higher School Certificates approved as such by the Board of Education (under their scheme for the better organisation of examinations in Secondary Schools) provided they also hold a First School Certificate under the said scheme.†

(c) Candidates who have passed the Intermediate Examination of a recognised Indian University.

(Candidates for the Faculty of Engineering should refer also to page 42.)

(d) Holders of School Certificates approved as such by the Board of Education under the said Scheme; provided that the certificate shows a pass with credit in five subjects taken at one and the same examination and chosen as follows :—

- I. Either English or History.
- II. Either Mathematics or Latin or Greek.
- III. Three other subjects not already taken under I and II above, chosen from the following list :—

- |   |                             |
|---|-----------------------------|
| 1. English.                             | 10. Mathematics.            |
| 2. History.                             | 11. Mechanics.              |
| 3. Geography.                           | 12. Physics.                |
| 4. Music or Art or Religious Knowledge. | 13. Chemistry.              |
| 5. Greek.                               | 14. Botany.                 |
| 6. Latin.                               | 15. Biology.                |
| 7. French.                              | 16. Physics-with-Chemistry. |
| 8. German.                              | 17. Geology.                |
| 9. Any other approved language.‡        | 18. Agricultural Science.   |

Provided that (a) candidates who take *Mathematics* under II above must include one of the subjects 5-9; (b) candidates who take *Latin* or *Greek* under II above must include one of the subjects 10-18; candidates who take *Biology* may not take *Botany*; candidates who take *Physics-with-Chemistry* may not take *Physics* or *Chemistry* or *Agricultural Science*.

Students intending to pursue a course for a degree in the Faculty of Arts must pass with credit in either *Latin* or *Greek*. Students intending to pursue a course for a degree in any one of the Faculties of Science, Medicine or Engineering must pass with credit in *Mathematics*. Students intending to pursue a course for a degree in the Faculty of Law must pass with credit in *Latin* or give evidence of such proficiency in *Latin* as may be satisfactory to Senate.

(e) Holders of the Leaving Certificate of the Scottish Education Department.

(f) Trained Certificated Teachers who have passed certain prescribed examinations.

\* Allahabad, Bombay, Calcutta, Madras, Punjab, Rangoon, Dacca.

† Candidates wishing to enter the Faculty of Arts must have attained at least "credit" standard in a Classical language; candidates wishing to enter the Faculty of Science or the Faculty of Engineering must have attained at least "credit" standard in *Mathematics*; candidates for the Faculty of Medicine must have attained at least "credit" standard in *Mathematics* or must have passed in *Physics* and *Chemistry* in a First School Certificate Examination.

‡ This implies practically any Oriental language approved, among other bodies, by the Examining Board for the Cambridge School Certificate Examination.

A candidate shall be eligible for matriculation who at any time passed—

(a) The Matriculation Examination of any University of the United Kingdom;

(b) The Responsions Examination of the University of Oxford if passed at one and the same examination;

(c) The Previous Examination of the University of Cambridge if passed at one and the same examination.

(d) Barristers at Law and Solicitors of the Supreme Court.

The Senate may declare eligible for matriculation a candidate for a research degree on his submitting to the Senate such evidence as it may deem sufficient of his qualifications for conducting original research.

*Fee, £3 3s.*

## Cambridge University.

All students must pass or obtain exemption from the PREVIOUS examination before being admitted to the University.

This examination is held four times in each academical year—in October, December, March and June: it should be carefully noted that no candidate may take the Previous examination unless entered by one of the Colleges.

The Previous Examination consists of three parts.

### PART I. :—

12 papers, of which four, and four only, are to be taken :—

- |                     |                        |
|---------------------|------------------------|
| (1) and (2)—Latin.  | (7) and (8)—German.    |
| (3) and (4)—Greek.  | (9) and (10)—Italian.  |
| (5) and (6)—French. | (11) and (12)—Spanish. |

Candidates are required to take both papers in Latin, and either (a) both papers in Greek or French or German or Italian or Spanish,

or (b) paper (5) and any one of papers (4), (7), (9), (11).

Candidates from India not of European descent may, if they wish, take instead of papers (3), (5), (7), (9), or (11), a paper on a modern English prose work of an historical character, and instead of papers (4), (6), (8), (10) or (12), a paper on a play of Shakespeare or some other classic English play.

Candidates from India not of European descent may take instead of (1) and (2) two papers in Arabic, Chinese, Sanskrit or Pali. These can only be taken in the examination which is held in the month of October, and no candidate can claim to be examined in them unless notice has been given to the Registry before the 15th July preceding the examination.

Students who avail themselves of the above concessions are not allowed to offer themselves as candidates for the Oriental Language Tripos or for the Diploma in Oriental Languages.

### PART II. :—

- (1) Mathematics A.
- (2) Mathematics B.
- (3) Paper on Experimental Physics and Chemistry.

Candidates must take (1) and *either* (2) *or* (3).

### PART III. :—

- (1) English Essay.
- (2) The subject-matter of one of the Synoptic Gospels or of the Acts of the Apostles.
- (3) Paper on the outlines of English History.

In Part III. the candidate is required to take paper (1) and *either* paper (2) *or* paper (3).

### Exemptions.

INDIAN UNIVERSITY EXAMINATIONS.—(1) A candidate who has obtained a First Class in the Intermediate Examination in Arts or Science, or a First or Second Class in the Examination for the Degree of Bachelor of Arts or Bachelor of Science in any

*Indian University approved for the purpose by the Council of the Senate*, is granted exemption from the whole of the Previous Examination, provided that, in some examination leading up to the Degree of Bachelor of Arts or Bachelor of Science in that University he has passed in Arabic, Persian, Persian with Arabic, Sanskrit or Pali; in Mathematics or Science; and in English.\*

The Universities at present approved for the purpose of this Regulation are Agra, Aligarh Muslim University, Allahabad, Andhra, Benares Hindu University, Bombay, Calcutta, Dacca, Lucknow, Madras, Nagpur, Patna, Punjab and Rangoon.

(2) A candidate who has obtained a First Class in the Intermediate Examination held by the Board of High School and Intermediate Education of the United Provinces of India, or in the Intermediate Examination of the Board of Intermediate or Secondary Education, Dacca, is granted exemption from the whole of the Previous Examination if either in the Intermediate Examination or in the High School Examination which leads up to it he has passed in a classical language, in Mathematics, in English and in History or Geography.

(3) Graduates of Indian Universities entitled to the privileges of Affiliation (see page 52) are thereby exempt from the Previous.

CAMBRIDGE SCHOOL CERTIFICATE EXAMINATION, formerly known as the Cambridge Senior Local Examination.

Exemption from the Previous Examination is also possible to students who have obtained the Certificate of the School Certificate Examinations held by the Cambridge Syndicate for Local Examinations, on the following conditions:—

(1) Exemption from the whole of the Previous Examination is granted to those who pass with credit in five of the subjects of the Examination, one of the five being Latin or Greek, or in four of the subjects of the Examination, including one at least from each of the Groups 1, 2 and 3,† one of the four being Latin or Greek. Candidates from India not of European descent may, at the December examination only, substitute Arabic or Persian or Sanskrit or Sinhalese or Tamil for Latin or Greek, but students who avail themselves of this concession are not allowed to offer themselves as candidates for the Oriental Languages Tripos.

(2) Exemption from the whole Previous Examination, with the exception of the papers in Latin, is granted to candidates who satisfy the above conditions but who have not included Latin or Greek as one of the subjects.

(3) Exemption can be obtained (a) from Part I. in respect of a Pass with Credit in Latin and either Greek, French, German or Spanish, at one and the same examination, or, by candidates from India, not of European descent, in respect of a Pass with Credit in (i) English Language and English Literature, and in (ii) Latin or Arabic or Persian or Sanskrit or Sinhalese or Tamil; (b) from Part II, in respect of a Pass with Credit in one of the subjects 11 to 16, i.e., Mathematics, Chemistry, Physics and Experimental Science; (c) from Part III, in respect of a Pass with Credit in English and in either Religious Knowledge or History in one and the same examination.

*Fees.*—For each part or from exemption from any part, £1.

\* It should be noted that only *complete* exemption, from the Previous can be obtained under this Regulation.

† Group 1, English subjects; Group 2, Languages; Group 3, Mathematics, Natural Science

## University of Durham.

### Armstrong College, Newcastle-upon-Tyne.

Students who wish to matriculate at Armstrong College must present certificates that they have passed one of the scheduled examinations in the required subjects and in the prescribed manner. The schedule includes the Entrance Examinations and the School Certificate Examinations of various Universities in the United Kingdom especially recognised by the College for this purpose. The only one of these examinations which can be taken in India is the Cambridge School Certificate Examination.

The certificate, or certificates, presented for matriculation must show the following standard of attainment:—

(a) In the case of School Certificate examinations *either*—

(i) Passes in five subjects "with credit" at one and the same examination; or

(ii) Passes in six subjects at one and the same examination, four of these subjects being passed "with credit"; or

(iii) Passes in six subjects "with credit" at not more than two examinations; or

(iv) Passes in seven subjects, of which five are "with credit" at not more than two examinations.

Candidates will be required to produce authoritative evidence of the subjects in which they have received a pass.

(b) In the case of certain Entrance examinations *either*—

(i) Passes in five subjects at one and the same examination; or

(ii) Passes in six subjects at not more than two examinations.

(N.B.—If an alternative lower paper is taken in the General Schools or Matriculation examinations of the University of London, passes in six subjects at one, or seven subjects at two, examinations will be required.)

### Choice of Subjects.

The subjects taken at any examination selected from School Certificate examinations may be chosen in any way consistent with the regulations for a School Certificate, subject only to the following limitations:—

(i) Only Music, Art and Geometrical and Engineering Drawing will be recognised in Group D.

(ii) Candidates who wish to read for a degree in Arts (except in Architecture) or for the degree of LL.B. must have passed the examination in Latin; in the case of a School Certificate, "with credit." The lower alternative paper set by London University is not accepted.

(iii) Candidates who wish to read for the degree of B.Sc. in Mathematics or Physics must have passed "with credit" in Mathematics. Other candidates for the degree of B.Sc. in Pure Science must have at least a pass in Mathematics.

Candidates who wish to read for the degree of B.Sc. in Applied Science, in Engineering, Electrical Engineering,

or Naval Architecture, must have passed "with credit" in Mathematics.

Candidates who wish to read for the degree of B.Sc. in Applied Science, in Mining, Metallurgy, or Agriculture, must have at least a pass in Mathematics.

The lower alternative paper set by London University is not accepted.

(iv) Candidates who wish to read for the degree of B.Arch. must have passed "with credit" in Mathematics.

### *Special Cases.*

Permission to matriculate without having previously satisfied the above conditions may be granted in special circumstances, as under:—

(a) Foreign or Colonial students must produce evidence that they have passed in their own country an examination of the requisite standard and in approximately the same subjects as would have been required had they taken one of the examinations named above; and further in the case of foreign students, that they have sufficient proficiency in English to enable them to follow a course of study with profit.

(b) For Indian students no qualification lower than that of the Intermediate Examination of an Indian University will be considered, except in the case of applicants holding the Diploma of the Thomason Engineering College, Roorkee, who will be considered on their merits. Candidates who propose to proceed to a Degree in Applied Science (Civil, Mechanical, Marine or Electrical Engineering, Naval Architecture, Mining or Metallurgy) who present the Intermediate Certificate of an Indian University will be required to have completed that examination in the subjects of Mathematics, Physics and Chemistry.

(c) Candidates of 18 or more years of age who produce evidence satisfactory to the College that they have been engaged in technical or professional pursuits or in business in the United Kingdom for a period of two years approximately, may be permitted to matriculate on passing the Special Entrance Examination instead of one of the recognised qualifying examinations. This special examination will be held at Armstrong College if candidates present themselves in September each year. Particulars of the examination, and application forms for permission to take it, are obtainable from the Registrar, Armstrong College. Applications should be lodged with him not later than 1st September each year.

A fee of £2 is payable at the time of Matriculation (not at the time of application).



## University of Durham.

### Durham Colleges.

Candidates who have not obtained a recognised qualification (see next page) entitling them to matriculation without further examination must pass the Matriculation Examination as follows:—

#### STUDENTS IN ARTS.

Five subjects must be taken, one being chosen from each of the following groups:—

- (a) Latin.
- (b) Greek, French, German, Religious Knowledge (including Greek Testament).
- (c) Modern History, English, Ancient History.
- (d) Mathematics (or Logic), Chemistry, Physics, Geography, Botany, Biology.
- (e) Additional Mathematics or any of the above subjects not already offered, provided Logic is not offered with Mathematics, nor Botany with Biology.

Candidates for Matriculation who propose to offer French in their University Course must satisfy in that subject.

#### STUDENTS IN SCIENCE.

Five subjects must be taken, one being chosen from each of the following groups:—

- (a) A foreign language, Ancient or Modern.
- (b) Modern History, English.
- (c) Mathematics.
- (d) Physics, Chemistry, Biology.
- (e) Ancient History, Geography, Botany, Religious Knowledge (including Greek Testament), Additional Mathematics or any of the subjects in (a), (b) and (d) not already offered.

#### PLACE AND DATE OF THE EXAMINATION.

Examinations will be held in the Lecture Rooms, Durham, in 1935 on the 8th January and 8th October, and on a date to be announced in January 1936. (The January examination is for candidates from Theological Colleges and students in Music only.)

A candidate should, not less than four weeks before examination, send an entry form containing his name in full and a list of the subjects offered, together with the required fee of £2, to the Head of the College which he desires to join or to the Censor of Non-collegiate Students at Durham.

## RECOGNISED EQUIVALENT EXAMINATIONS.

(Only those qualifications which can be obtained in India have been included; qualifications obtainable in England are the Entrance Examinations and School Certificate Examinations of various Universities in the United Kingdom, duly recognised by the College for this purpose.)

I. Complete exemption from the Matriculation Examination is granted to (a) Graduates of Universities of the United Kingdom or of such other Universities as may from time to time be recognised by the Matriculation Board; (b) holders of School Certificates approved by the Board of Education (these include the Cambridge School Certificate Examination and the Oxford Senior Local Examination), provided that—

(1) A credit mark has been obtained in not less than five subjects other than Religious Knowledge and the subjects in Group D, comprising—

Music.

Drawing.

Business Knowledge.

Geometrical and Mechanical Drawing.

One credit mark at least must be obtained in each group.

(2) Persons proposing to study in the Faculty of Arts shall have obtained a credit mark in Latin, and those proposing to offer French in their University Course a credit in that subject also.

II. A candidate educated elsewhere than in Great Britain may be declared eligible for matriculation on his submitting such evidence as the Matriculation Board may deem sufficient of his having passed such examinations as the Board may deem equivalent to any of those above named.

Applications for exemption under I. above should be addressed to the Secretary of Examinations, University Offices, Durham, accompanied by evidence of having passed the examination in respect of which exemption is claimed, accompanied by a fee of £2. Applicants under II. should forward their applications before 1st June in each year to the Secretary of the Matriculation Board, University Offices, Durham, accompanied by such evidence as the candidate may desire to submit, a fee of £2 and a birth certificate.

## University of Durham.

### College of Medicine, Newcastle-upon-Tyne.

Students, unless otherwise exempted, must have passed the School Certificate Examination of certain specified English Universities in the prescribed manner and in the required subjects. The only one of these examinations which can be taken in India is the Cambridge School Certificate Examination.

Students must have passed in the following subjects. ("Credit" must be obtained in English and Mathematics and in two of the other three subjects):—

- (1) English.
- (2) Elementary Mathematics.
- (3) Greek or Latin (Oriental students may offer Arabic, Persian or Sanskrit).
- (4) French or German or other modern language for which special permission has been obtained.
- (5) One subject selected from the following list:—
 

(a) Ancient History.	(j) Experimental Science.
(b) Modern History.	
(c) Greek. } (if not already taken	(k) Chemistry.
(d) Latin. } under (3) above).	(l) Physics.
(e) French. } (if not already taken	(m) Botany.
(f) German. } under (4) above).	(n) Zoology.
(g) Advanced Mathematics.	(o) Biology.
(h) Mechanics.	(p) Geography.

#### *Examinations exempting from the Matriculation Examination.*

Students from India may proceed to the degrees of M.B., B.S. of the University under the following conditions, viz. :—

- (a) They may matriculate by passing the Intermediate Examination in Arts or Science, in the subjects of English and Mathematics and at least two other additional subjects, at one of the following Indian Universities, viz. :—

Bombay.	Patna.
Calcutta.	Punjab.
Lucknow.	Rangoon.
Madras.	

- (b) They must pass the Pre-Registration Examination of the University in the subjects of Inorganic Chemistry and Physics, unless they be granted exemption therefrom by virtue of having passed one of the following examinations, viz. :—

University of Bombay	}	Preliminary Scientific or equivalent examination.
" Calcutta		
" Lucknow		
" Madras		
" Punjab		

- (c) They must obtain a certificate of registration as a medical student with the General Medical Council of the United Kingdom (*see* page 194) by virtue of the examinations indicated in the before mentioned paras. (a) and (b) before any courses of study will be recognised as part of their professional education.
- (d) Students who are granted exemption from matriculation or the Pre-Registration Examination of the University will be required to pay exemption fees, viz. :—

	£	s.	d.
Matriculation -	-	2	0 0
Pre-Registration	-	3	3 0

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# Joint Matriculation Board of the Universities of Birmingham, Leeds, Liverpool, Manchester and Sheffield.

## School Certificate Examination.

*Subjects.*—A Matriculation Certificate is awarded to a candidate who at one and the same examination—

- (a) satisfies the examiners in English language;
- (b) passes *with credit* in five subjects chosen as follows;
- (c) attains a certain aggregate in these five subjects together with English language:—

- (I.) *Either English Literature or History or Geography.*
- (II.) *Either Mathematics or Latin.*
- (III.) } Three other subjects not already taken under (I.)
- (IV.) } and (II.) above, chosen from the following list:—
- (V.) }

- |   |                                    |
|---|------------------------------------|
| (1) English Literature.   | (11) Mathematics.                  |
| (2) History.  | (12) Mechanics (ii).               |
| (3) Geography.  | (13) Physics (ii).                 |
| (4) Scripture knowledge.†   | (14) Chemistry.                    |
| (5) <i>Either Music or Art (i).</i>   | (15) Physics-with-Chemistry (iii). |
| (6) Greek.  | (16) Biology or Botany.            |
| (7) Latin.  | (17) Agricultural Science (iv).    |
| (8) French.   |                                    |
| (9) German.   |                                    |
| (10) Spanish or Welsh or Italian or Russian or Hebrew or some one other language approved by the Board. |                                    |

Provided that (a) candidates who take Mathematics under (II.) above must include one of the subjects (6)–(10); (b) candidates who take Latin under (II.) above must include one of the subjects (11)–(17).

NOTES.—(i) Art is accepted as a Matriculation subject only if the candidate has passed in three sections, of which Memory-Drawing and History of Architecture or History of Painting must be two.

(ii) Candidates who take the Mechanics portion of the Physics paper may not take Mechanics as a separate subject.

(iii) Physics-with-Chemistry may not be taken by candidates who take *either* Physics or Chemistry or Mechanics or Agricultural Science.

(iv) Agricultural Science may not be taken by candidates who take *either* Physics or Chemistry or Physics-with-Chemistry.

It is understood that the following other languages have been approved:—Arabic, Sanskrit, Persian, Portuguese, Dutch, Swedish, Danish, Chinese, and Pali, but application to present any of these languages must be made to the Board and the fee, £3 for the special language papers and £2 examination fee, paid on or before the 1st March.

\* Geography is only accepted as an alternative under (I) on certificates gained in and after 1933.

† Scripture knowledge is accepted on certificates gained in and after 1936

*Exemptions obtainable on account of Examinations which can be passed in India.*<sup>c</sup>—A student is entitled to exemption from the Matriculation Examination provided he satisfies one of the following conditions:—

(a) Holds a degree conferred by an approved University† after examination.

(b) Has obtained the Cambridge School Certificate (Senior Local), provided that the candidate has at one and the same examination

either—

(A) reached the credit standard in English and in four other subjects‡ chosen in accordance with the requirements of the Board from the schedule of Matriculation subjects,

or—

(B) reached the satisfactory standard in English and the credit standard in five other subjects‡ chosen in accordance with the requirements of the Board from the schedule of Matriculation subjects.

(c) Holds a certificate of having passed **at one and the same examination** the Intermediate Examination in Arts, Science or Medicine of an approved Indian University.

(Note.—It has been ascertained that an approved Indian Matriculation Certificate together with either the Diploma of the complete engineering course at Roorki College or that of Sibpur College, or a Diploma of the Victoria Jubilee Technical Institute, Bombay, would be accepted by the Board as exempting from their Matriculation Examination.)

Applicants for exemption must obtain and fill up the specified form and forward the registration fee of £2. In addition to exemption from the Matriculation Examination a candidate may be required to satisfy special conditions laid down by a particular faculty, e.g. Latin for the Faculty of Arts. Further information on this point can be obtained from the Faculty in the University concerned. Applications for exemption which do not fulfil the special conditions laid down in the Regulations must be accompanied by a fee of 10s., which is not returnable,

\* Certificates gained after 1927 must fulfil the conditions in force for exemption at their date of issue.

† The Board has no approved list of Indian Universities whose Intermediate Examination is recognised for the purposes of exemption from the Matriculation Examination: each application being considered individually.

‡ If Art is one of the five subjects the candidate must have passed in three sections, of which Memory Drawing and History of Architecture or History of Painting must be two.

but which will be included in the fee of £2 required if exemption be granted.

The examination is held in July and in September. The last date for entry and for payment of the fee (£2) is:—

For the July examination, 1936 - 25th April.

For the September examination, 1936 - 5th September.

Communications and fees can be addressed to the Secretary of the Board, 315, Oxford Road, Manchester 13, either direct or through the University Bureau, or Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, W.C. 2.

## Special Regulations for Entrance to the Faculties of the Universities concerned.

*Correspondence concerning these Special Regulations should not be addressed to the Joint Matriculation Board, but to the University concerned, or to the University Bureau or Local Advisory Committee in India and the High Commissioner for India, Education Department, London, W.C. 2.*

### UNIVERSITY OF MANCHESTER.

#### *Faculty of Arts.*

Candidates intending to enter upon any Honours course (save Architecture; Economics, Politics and Modern History; Philosophy; Geography; and Oriental Studies), must have passed the Matriculation Examination, or some equivalent examination, in Latin (in the case of the Honours Schools of German and English, Greek may be substituted for Latin); otherwise, they may not, without special permission of the Board of the Faculty, proceed in less than four years to the Final Honours Examination. Permission to complete their Honours course in three years will be given not earlier than the close of the first session, upon evidence as to the applicant's ability to complete the course satisfactorily within the shorter period, and will be confined *either* to candidates who have obtained exemption from one of the subsidiary subjects required under Regulation C. 1 of their Honours Schools, *or* to candidates who have passed Intermediate Latin before the beginning of their second session and have not more than one subsidiary subject to complete.

#### *Faculty of Science.*

Candidates entering upon a course for a degree in the Faculty of Science are required to have satisfied the Matriculation requirements, and (i) to have passed in Mathematics as a subject of the Matriculation Examination, or to give evidence satisfactory to the Senate of having attained an equivalent standard; (ii) to have passed in Mechanics as a subject of the Matriculation Examination or to give evidence satisfactory to the Senate of having attained an equivalent standard.

#### *Faculty of Law.*

Candidates for the Degree of Bachelor of Laws are required to have passed in Latin in the Matriculation Examination or in some examination of equal or of higher standard or to give evidence of such proficiency in Latin as may be satisfactory to the Board of the Faculty of Law.

#### *Faculty of Medicine.*

Candidates entering upon a course for a degree in the Faculty of Medicine are required:—

- (i) To have passed in Latin as a subject of the Matriculation Examination, or in special cases to give



such other evidence of the knowledge of Latin as may be satisfactory to the Senate.

(ii) To have passed in Mathematics as a subject of the Matriculation Examination, or to give evidence satisfactory to the Senate of having attained an equivalent standard.

(iii) To have passed in Mechanics as a subject of the Matriculation Examination, or to give evidence satisfactory to the Senate of having attained an equivalent standard.

#### *Faculty of Technology.*

Candidates entering upon a course for a degree in the Faculty of Technology are required to have passed in Mathematics as a subject of the Matriculation Examination, or to give evidence satisfactory to the Senate of having attained an equivalent standard.

### UNIVERSITY OF LIVERPOOL.

#### *Faculty of Arts.*

All candidates for the Degree of Bachelor of Arts are required (a) to have passed the Matriculation Examination or an examination recognised as exempting from it, and, if not students holding the Secondary Education Certificate of the Egyptian Ministry of Education and exempted by the Joint Matriculation Board from the Matriculation Examination, (b) to have included Greek or Latin or, in approved instances, another classical language, among the subjects enumerated on the Matriculation Certificate, or among those subjects in which the Matriculation standard has been attained in an examination recognised as exempting from the Matriculation Examination. The Faculty has power to exempt from section (b) candidates who have satisfied the requirements of the examination for persons of mature years.

#### *Faculty of Engineering.*

Students proposing to enter the Faculty of Engineering are recommended to include in the Matriculation Examination or exempting examination, the papers in Mathematics (with the paper in Additional Mathematics), and one or two of the following: Physics, Chemistry, Mechanics. Students in Metallurgy are recommended to include Chemistry.

#### *Faculty of Medicine (including School of Dental Surgery).*

Candidates for the degrees of Bachelor of Medicine and Bachelor of Surgery and the degree of Bachelor of Dental Surgery are required (a) to have satisfied the Examiners in the several subjects of the Matriculation Examination or to have passed such other examination as may from time to time be recognised for this purpose by the Joint Matriculation Board, and (b) to have included Mathematics among the subjects in which they have passed at such examination. Candidates for the degree of Bachelor of Dental Surgery are required to have attained the age of 17 years at the date of registration as a dental student.

## UNIVERSITY OF LEEDS.

*Faculty of Arts.*

Candidates will not be admitted to the courses of study for the Degree of Bachelor of Arts unless they have either (i) passed the Matriculation Examination in Latin; or (ii) passed "with credit" in Latin in one of the recognised School Certificate Examinations; or (iii) passed in Latin as a full or as a subsidiary subject in one of the recognised Higher School Certificate Examinations, provided that translation at sight from Latin into English forms part of the Examination.

*Faculty of Medicine.*

Candidates for a Degree in the Faculty of Medicine (M.B., Ch.B., or B.Ch.D.), except in cases specially approved by the Senate, are required to present evidence of possessing a knowledge of Mathematics at least equivalent to that of the "Pass" standard at a School Certificate Examination.

## UNIVERSITY OF SHEFFIELD.

*Faculty of Arts.*

Candidates for the Intermediate Examination who propose to offer a language or languages in which they have not passed in the Matriculation Examination, or in the examination on which exemption from the Matriculation Examination has been obtained, must, before admission to full Intermediate Courses, satisfy the Heads of the Departments concerned that their knowledge of the language or languages is sufficient for them to profit by the course in the subject or subjects. This regulation applies also to Music. Candidates who offer a Modern Language (other than Russian) or English or Ancient or Modern History or Philosophy are recommended (but not required) to offer Greek or Latin also.

*Faculty of Law.*

Candidates who propose to enter the Faculty of Law must include Latin in the Matriculation Certificate or exempting Certificate.

*Faculty of Engineering.*

Candidates who propose to enter the Faculty of Engineering should present the subject of Mathematics, and include Mechanics or Physics or Chemistry.

*Faculty of Metallurgy.*

Candidates who propose to enter the Faculty of Metallurgy are advised to take Mathematics, Physics and Chemistry in the Matriculation Examination.

## UNIVERSITY OF BIRMINGHAM.

*Faculty of Arts.*

Candidates (except those taking a degree in Music) are required to pass in Latin (or Greek) and in a modern language.

*Faculty of Law.*

Candidates are required to pass in Latin.

### *Faculty of Science.*

Candidates taking the Degree of B.Sc. are recommended to take both French and German (French or German or Spanish in the case of Applied Science). If they pass at Matriculation standard they will secure exemption from a special examination in those subjects.

### *Faculty of Medicine.*

Candidates proposing to enter the University to qualify for the degrees of M.B., Ch.B., are required to have passed in English, Mathematics, and a language other than English as three of their subjects.

## **Examination in lieu of the Matriculation Examination.**

### *An Examination for Persons of Mature Years.*

This form of examination is intended to meet the cases of *exceptional* candidates who have been unable to matriculate at the normal time, but who show promise of obtaining more than ordinary success in a University course.

The examination will be held in May or June and applications must be received not later than 1st May.

Only *bonâ fide* students who intend to enter on a Degree Course at one of the five Universities are eligible to enter for the examination.

Applications under these regulations must be made on the prescribed form, which may be obtained from the Secretary to the Board.

Candidates must be not less than 23 years of age on 1st May of their year of application, and may not take this examination a second time except by special permission of the Examiners.

Candidates will be interviewed by the Board and must submit themselves to such oral and written examination as the Board consider necessary. The examination test will vary according to the interests and qualifications of individual candidates. No syllabus is laid down, but normally each candidate will be required to write an English essay and to answer questions on non-technical subjects chosen by himself with the approval of the Board or bearing on the University course upon which he desires to enter.

The purpose of the examination is to test the educational fitness of a candidate for admission to a definite Faculty in a given University. Success in the examination does not qualify the candidate for admission to any other Faculty or University and the examination is not recognised as a general Matriculation Examination. Further, successful candidates are not exempted from fulfilling the special requirements of the Faculty to which they desire to be admitted.

The examination fee is £2. If a candidate has been examined, no portion of this fee is returnable whether he is accepted or rejected.

## University of London.

*Subjects.*—Five subjects are to be selected for the MATRICULATION Examination, as follows:—

*Compulsory Subjects for all Candidates:—*

- (1) English. One paper covering three hours.
- (2) Elementary Mathematics. Two papers of three hours each.

*Optional Subjects to be selected by the Candidate:—*

- (3) Latin,<sup>\*</sup> or Greek,<sup>\*</sup> or French,<sup>‡</sup> or German,<sup>‡</sup> or Botany, or Chemistry, or Heat, Light and Sound, or Mechanics, or Electricity and Magnetism, or General Biology, or Zoology, or Geology. One paper of three hours in the subject selected.
- (4) and (5) Two of the following subjects, neither of which has already been taken under section (3). One paper of three hours in each subject. If neither Latin nor Greek nor French<sup>‡</sup> nor German<sup>‡</sup> has been taken under section (3), one of the other subjects selected must be a language other than English:—

Latin,	French,	Italian,	Spanish,
Greek,	German,	Russian,	Welsh;
Greek History, or Roman History, or English History, or			
European History, or The History of the British Empire,			
Geography,		Botany,	
Logic,		Zoology,	
Geometrical and Mechanical		Geology,	
Drawing,		General Biology,	
Mathematics (more advanced),		Music,	
Mechanics,		Economics,	
Chemistry,		New Testament Greek,	
Heat, Light and Sound.		Religious Knowledge,	
Electricity and Magnetism,		A special Language. <sup>†</sup>	

(i) A candidate may take an alternative lower paper in *one* of the subjects Elementary Mathematics, Latin or French, in which case he will be required to take a sixth subject, which may be any one on the list, provided that it has not already been taken. He may not take an alternative lower paper in addition to the ordinary paper in that subject, nor the alternative lower paper in Latin or in French in addition to the ordinary paper in any language other than English, nor the alternative

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\* A candidate who is a native of Asia or Africa and not of European or American parentage may substitute for Latin or Greek under section (3) any one of the following languages:—Arabic, Chinese, Pali, Persian, Sanskrit, Classical Syriac.

A candidate will be required to send to the University original documentary evidence clearly establishing his claim to take the language substituted for Latin or Greek and to comply with the other regulations relating to special languages (see paragraph vi on page 20).

† The approved Special Languages include Arabic, Bengali, Burmese, Canarese, Gujarati, Hebrew (Classical), Hebrew (Modern), Hindi, Hindustani (Urdu), Malayalam, Marathi, Oriya, Pali, Panjabi (Gurmukhi and Perso-Arabic), Persian, Sanskrit, Sindhi, Sinhalese, Classical Syriac, Tamil and Telugu.

‡ In and after 1938.

lower paper in Elementary Mathematics in addition to the ordinary paper in Mathematics (more advanced).

(ii) No candidate may take more than one subject of History.

(iii) No candidate may take more than one of the following subjects:—Greek, New Testament Greek, Modern Greek.

(iv) A candidate offering General Biology may not offer also Botany or Zoology.

(v) No candidate may take two of the Special Languages, excepting in the case of Oriental Languages, in which two may be taken provided that one of them be a classical language, viz., Arabic, Chinese, Classical Hebrew, Pali, Persian, Sanskrit, and Classical Syriac, and further provided that if Classical Hebrew be taken, Modern Hebrew be not also taken.

(vi) Every candidate who desires to take a special language must fill in and return *three months* before the commencement of the examination for which he intends to enter, a special form of application which may be obtained from the Secretary, Matriculation and School Examinations Council, University of London, South Kensington, S.W. 7. An additional fee of £2 2s. is payable in respect of every special language taken under this regulation and such fee is not returnable in any circumstances. When applying for the special form referred to, candidates should state (a) the name of the language which they propose to offer, (b) the date upon which they propose to enter for the Matriculation Examination, (c) the remaining optional subjects selected by them, and (d) whether they propose to take an alternative lower paper, and, if so, what is the sixth subject selected by them.

(vii) Inasmuch as Latin or Greek is normally compulsory at the Intermediate Examination in Arts, candidates proposing to enter for that examination are advised to take Latin or Greek at the Matriculation Examination; candidates from India or Asia, not of European or American parentage, may apply to the University for leave to take Sanskrit, Pali, Hebrew, Classical Arabic, Classical Persian, or Classical Chinese in lieu of Latin at the Intermediate Arts Examinations for Internal or External Students.\* In order, however, to be qualified to take Latin at the Internal Intermediate Examination in Arts, it is necessary that the candidate shall (a) have already passed in the ordinary paper in this subject at the Matriculation Examination or (b) have reached an equivalent standard in the subject at a recognised qualifying examination not later than the January preceding the Intermediate Examination, or (c) have submitted evidence satisfactory to the University of an adequate preliminary training in the subject. Candidates who intend to proceed to a degree in Laws are advised to include Latin and English History in the subjects of their Matriculation Examination.

\* A special additional fee of £5 5s. will be payable, except that External Students are exempted in the cases of Sanskrit and Pali and required to pay an additional fee of £2 2s. for Hebrew.

(viii) Candidates who propose to take an alternative lower paper at the Matriculation Examination are reminded that a student wishing to qualify to read for the B.Sc. (General) or B.Sc. (Special) Degree as an Internal Student must have satisfied the Examiners in the *ordinary* papers in Elementary Mathematics at the Matriculation Examination, or have reached an equivalent standard in that subject at one of the examinations accepted in lieu thereof.

*Dates.*—This examination is held three times a year; in January, June and September. Every candidate for the Matriculation Examination must apply to the Secretary, Matriculation and School Examinations Council, University of London, South Kensington, S.W. 7, for a form of entry and must observe the following dates:—

Examination.	Last date for applying for forms of entry.	Entry closes (i.e., last date for return of forms of entry).
January -	25th November	1st December.
June -	18th April	24th April.
September -	20th August	Fourteen days before the commencement of the examination.

Each form of entry must be accompanied by (1) documentary evidence of the candidate's age and name; and (2) the proper fee.

*Fee, £2 12s. 6d.* An additional fee of £2 2s. is payable in respect of a Special Language.

*Exemptions obtainable on account of Examinations passed in India.*—Complete exemption from the London Matriculation is granted only to graduates of Indian Universities recognised by the Senate. The Universities at present recognised are: Agra, Allahabad, Aligarh Muslim University, Andhra University, Annamalai, Benares Hindu University, Bombay, Calcutta, Dacca, Delhi, Lucknow, Madras, Mysore, Nagpur, Patna, Punjab, and Rangoon.

Complete exemption is also granted to students who have passed the Cambridge School Certificate under the following conditions (these conditions apply to Certificates obtained after October 1934):—

The student must, *at one and the same examination*, have obtained a "Pass with credit" in the following subjects:—

- (1) English;
- (2) Arithmetic, Algebra and Geometry;
- (3) Latin, or Greek, or Physics, or Chemistry, or Botany, or General Science, or Biology, or Physics-with-Chemistry;

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\* A candidate who is a native of Asia or Africa (and not of European or American parentage) may substitute for Latin or Greek under section (3) any one of the following languages:—Arabic, Chinese, Pali, Persian, Sanskrit. A candidate will be required to send to the University original documentary evidence clearly establishing his claim to count a language substituted for Latin or Greek.

- (4) and (5) Two of the following subjects or combinations of subjects, neither of which has been counted under section (3). If Latin has not been taken, one of the other subjects offered must be another language from the list, either ancient or modern :—

Latin,	Pali,
Greek.	Sinhalese,
French,	Physics,
German,	Persian,
Spanish,	Sanskrit,
Geography,	Chinese,
Additional Mathematics	Siamese,
(any two papers),	Africkans,
Applied Mathematics,	Fante,
Chemistry,	Ga,
Botany,	Twi,
General Science,	Yoruba,
Biology,	Physics-with-Chemistry,
Tamil,	Religious Knowledge,
Arabic,	Art or Music,
Punjabi,	Bengali,
Telugu,	Gujarati,
Urdu,	Hindi,
Burmese,	Kanarese,
Malay,	Malayalam,
Italian,	Marathi,

English History, or History of the British Empire, or  
Modern European History,

*It is further required* that if two Oriental languages are offered under (4) and (5), one of them must be a classical language, viz. Arabic, Chinese, Pali, Persian, Sanskrit.

A lower standard than credit may, in certain cases, be accepted in Elementary Mathematics, or Latin, or French, provided that the candidate has obtained, in addition, a pass with credit in a sixth subject included in the above list—all six subjects to be taken on one and the same occasion. Every candidate claiming exemption under this scheme will be required to ask the Secretary of the Local Examinations Syndicate, Syndicate Buildings, Cambridge, to send to the University a special statement of his results.

### Special University Entrance Examination.\*

Students of 19 years of age and upwards† who present certificates from an academical or other educational authority, which, in the opinion of the Principal of the University of London, indicate that they have obtained a standard *prima facie* involving an education equivalent in India to that required in England for Matriculation in the University of London, may apply for admission to the Special University Entrance Examination, instead of to the ordinary Entrance Examination.

\* Formerly called the "Examination under Statute 116."

† It is essential that students should be in a position to submit definite and official evidence of their date of birth.

Students over the age of 23 years are also eligible for admission to this examination.

The examination is held in London only; the written portion occupies two days, and there is an oral examination, for which attendance on a further day will be required, in every case in which the Examiners so decide. Every candidate is required to make a written declaration that it is his *bonâ fide* intention to proceed to a degree or diploma of the University. It is necessary to submit *in original* the certificates on which the application is based, but it should be emphasised that no person can be admitted to this examination without the permission of the University in each individual case. The examinations are held generally in March, May, September and December of each year.

*Subjects.*—The written portion of the examination for all candidates will usually be conducted in accordance with the following scheme, but the Board may vary the form of examination in such cases as they think fit :—

Candidates will be examined in four subjects selected as follows :—

I. *English.*—Obligatory on all candidates.

II. *Elementary Mathematics or Logic*—at the choice of the candidate, except that candidates proceeding to a Degree in Engineering or in Estate Management, or as Internal Students to the B.Sc. (General) or B.Sc. (Special) Degree, must take Elementary Mathematics.

III. Candidates are *required* to select their *Third Subject* according to the Degree to which they are proceeding, as set out below :—

*Divinity.*—Latin, Greek, or ' New Testament Greek.

*Arts, Music.*—Latin, Greek, French, German, Spanish, Italian, or Dutch, but candidates proceeding as Internal Students to the Intermediate Examination in Arts with Latin, will be required to pass in Latin.

*Laws.*—Latin, ' History (English), Logic, French, German, Spanish, Italian, or Dutch.

*Medicine, Pharmacy.*—Chemistry, Physics, Botany, Zoology, or General Biology.

*Science* (including Agriculture, Horticulture, Veterinary Science).—' Physics, Chemistry, Botany, Zoology, or General Biology.

*Engineering.*—Mathematics (more Advanced), Mechanics, ' Physics, or Geometrical and Mechanical Drawing).

*Economics, Commerce, Estate Management* — Economics, ' History (English), or Geography.

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\* See para (1) under heading "*Syllabus*" on page 24



IV. The *Fourth Subject* must be selected by the candidate from among those that may be offered for the second or third subjects (provided it has not already been taken), or be one of the following: History (<sup>o</sup>Modern European, or <sup>o</sup>Ancient or <sup>o</sup>British Empire), Geology.†

V. English-speaking candidates who do not take one of the Languages given under Group III above as one of their four subjects must take, as a fifth subject, an alternative paper in one of the modern languages given in that group. This paper will consist only of translation from the foreign language into English, and will occupy one hour.

Candidates offering Greek may not offer also New Testament Greek; candidates offering General Biology may not offer in addition Botany or Zoology. Candidates offering both Elementary Mathematics and Logic are required to take the Morning Paper in Mathematics. Only one branch of History may be offered.

Candidates whose native language is not English are *not* permitted to offer their native language at this Examination, although they are permitted to do so at the ordinary Matriculation Examination in accordance with the relevant Regulations.

(Note.—The time allowed for each paper is two hours, except in the case of the alternative papers under V above.)

*Syllabus.*—The following points should be noted:—

(i) There are no published syllabuses or examination papers; but in both these respects the written part of the examination, except in the case of subjects marked with an asterisk, corresponds approximately to the Matriculation Examination.

(ii) For students whose native language is not English, the examination in English consists mainly of an Essay; but English-speaking candidates will also be examined, orally or otherwise, in English Grammar, and may also be examined as to their general reading in English Literature.

(iii) The examination paper in Physics includes questions in Heat, Light and Sound, as well as questions in Magnetism and Electricity; candidates may obtain full credit by answering questions either in one or in both sections, but may not offer the two sections as separate subjects of examination.

(iv) The examination paper in Economics will contain questions both in the principles of Economics and in Industrial History; candidates may obtain full credit by answering questions either in one or in both sections, but may not offer the two sections as separate subjects of examination.

\* See paragraph (i) under heading "*Syllabus*" below.

† This subject will be discontinued in and after 1937.

(v) The Examination in English History covers the whole period 55 B.C.-1901 A.D. ; a choice of questions is allowed.

(vi) In all other subjects marked with an asterisk a general elementary knowledge is required.

*Fee, £5 5s.*

*Age and Name.*—Satisfactory evidence of age will be required. This may be a certificate from the Registrar-General in London or from the Superintendent Registrar of the district, or a certified copy of the baptismal register, or a statutory declaration of the candidate's age made before a magistrate or a Commissioner for oaths by his parent or guardian, or by the Principal of his school, or by the candidate himself *if of full age*. To avoid any difficulties students are strongly advised to bring with them an official statement of their age from the proper authority in India.

Attention is further drawn to the fact that if for any reason the name used by the candidate differs in the slightest degree from that given on his University certificates or diplomas, the applicant must submit a statement signed by some responsible authority explaining the change in name and certifying that the name given in the certificate or diploma and that being used by the student refer to one and the same person. A statutory declaration may be required in the case of students over 21 years of age.

All students who intend to enter for this examination, and who are in any doubt as to any point in the Regulations, are advised to communicate with the External Registrar.

Entry forms for the examination must be applied for *not less than five clear weeks*, and must be returned complete in all respects not less than four clear weeks before the first day of the written examination, which will be, in 1936, 5th March, 7th May, 22nd September, 10th December, and probably at approximately the same dates in 1937. When applying for their forms candidates must give their age, and state clearly what examinations they have passed. Cards of admission to the examination, on which are given all necessary instructions, will be despatched from the University one week before the date of the examination ; these will not in any circumstances be sent out of England.

## Oxford University.

RESPONSIONS, or some examination accepted as equivalent to it, must be passed **before** matriculation (i.e. before admission as a member of the University). Names of candidates cannot, under any circumstances, be received from them direct, but must be entered through the Society to which they intend to belong. The examination, which usually occupies five days, is held four times a year, once at the end of each term, and once near the end of the Long Vacation, that is, in the months of December, March, June and September.

The subjects of examination are arranged in three groups:—

1. (a) Latin, (b) Greek.
2. (a) Holy Scripture, (b) English, (c) French, (d) German, (e) Italian, (f) Spanish.
3. (a) Mathematics, (b) Natural Science.

In order to pass, candidates are required to satisfy the examiners either (i) in at least one subject from each group and in four subjects in all, or (ii) in both subjects of group 1, and both subjects from group 3. All candidates must satisfy the examiners in two languages other than English, and must pass either in all four subjects at one examination or in three subjects at one examination, and in the fourth subject at a subsequent examination.

**GROUPS 1 AND 2.**—Candidates offering Latin, French, German, Italian or Spanish will be examined in unprepared translation and in easy composition.

Candidates offering Greek will choose two out of four subjects, i.e. Translation, Composition, a Greek Book in Original, and a Greek Book in Translation.

Candidates offering English will be examined on either a certain period of the Outlines of English History or on a certain period of English Literature.

**GROUP 3.**—In subject (a), Mathematics, two papers will be set, containing questions on Arithmetic, Algebra and Elementary Geometry, and in subject (b), Natural Science, candidates will be allowed to take either Elementary Chemistry or Elementary Physics (Light, Heat, Electricity and Magnetism), but will be expected to have some knowledge of the principles of both. There will be a practical examination in the subject offered.

Oriental students who are not of European or American parentage may obtain leave to offer, in lieu of a subject from Group 1, either French from Group 2, or Sanskrit, or Arabic, or Persian, or Pali, or Classical Chinese or Classical Hebrew, which may be taken now at *all* examinations.

Candidates who offer an Oriental language will be required to translate easy passages from English into the language which they offer, and to translate unprepared passages from the language which they offer into English.

The fee payable on entering a name for Responsions is £3 if three or four subjects are offered, and £1 10s. if only one subject is offered.

## Exemptions.

### A. INDIAN UNIVERSITY DEGREES.

1. Exemption from Responsions is given to any person who has obtained the degree of B.A. or B.Sc. at an Indian University approved by the Hebdomadal Council, provided that his course at his Indian University included the study of English and one of the languages, Latin, Greek, French, German, Sanskrit, Arabic, Persian, Pali, Classical Chinese.

*It should be noted—*

- (1) *that the prescribed language may have been offered at the Intermediate or Final Examinations;*
- (2) *that although a degree with an Oriental language may qualify the holder for formal exemption from Responsions, yet it does not necessarily satisfy the conditions required by Societies for admission. For in order to pass the First Public Examination, the student will require at least a knowledge of French (or German or Old English), and possibly of Latin also, and most Societies require evidence of some knowledge of them before offering admission.*

2. Graduates of Indian Universities entitled to Junior or Senior Status (see pages 137–139) are thereby exempt from Responsions.

### B. OXFORD LOCAL EXAMINATIONS.\*

Exemption from Responsions is given to the holders of a School Certificate granted by the Delegates of Local Examinations, provided that either in the same or in separate examinations he has passed with credit in two of the languages Latin, Greek, French, German, Italian, Spanish, of which either Latin or Greek shall be one, and in two other subjects included in Groups I, II, and III.†

An Oriental student may, with the permission of the Vice-Chancellor and Proctors, be exempted from Responsions if he has passed with credit in Arabic or in Sanskrit or in Persian or in Pali or in Classical Chinese or in Classical Hebrew, and in one of the languages Latin, Greek, French, German, Italian, Spanish, and also in two other subjects included in Groups I, II, and III.

### C. CAMBRIDGE LOCAL EXAMINATIONS.

Exemption from Responsions is also given to the holders of the School Certificate of the Cambridge Syndicate for Local Examinations, provided that the holder has either in the same or separate examinations passed with credit in two of the languages Latin, Greek, French, German, Italian, Spanish, of which either Latin or Greek must be one, and in two other subjects included in Groups I, II, and III.†

\* A candidate who has obtained a School Certificate showing that he has passed with credit in three of the four subjects required for Responsions may be permitted to offer himself for examination in Responsions in the fourth as a single subject.

† Group 1, English subjects, Group 2, Languages, Group 3, Mathematics, Natural Science

## University of Wales.

### *Subjects for Matriculation:—*

The subjects of the Matriculation Examination are the following:—

- |  |                       |
|--|-----------------------|
| (1) Greek.   | (11) Scripture.       |
| (2) New Testament Greek.                           | (12) Music.           |
| (3) Latin.   | (13) Art.             |
| (4) English.                                       | (14) Geography.       |
| (5) Welsh Language and Literature.                 | (15) Mathematics.     |
| (6) Welsh.   | (16) Mechanics.       |
| (7) French.  | (17) Physics.         |
| (8) German.  | (18) Chemistry.       |
| (9) Any other language approved by the University. | (19) Botany.          |
|  | (20) Biology.         |
|  | (21) Geology.         |
|  | (22) General Science. |
- (10) History.

Every candidate must satisfy the examiners at one and the same examination in five of the above subjects. No candidate may present himself for examination in more than five subjects save that a candidate who wishes to take the additional paper in Mathematics may do so on payment of a fee of 5s. in addition to the Matriculation Examination fee.

The five subjects offered for examination by any candidate must include:—

- (i) English or Welsh Language and Literature.
- (ii) Greek or New Testament Greek or Latin or Mathematics.
- (iii) At least one language in addition to the language offered under (i), save that no candidate may offer both Greek and New Testament Greek and both Welsh Language and Literature and Welsh.
- (iv) Mathematics, or one of the subjects 14 and 16–22 in the above list.

A candidate who presents himself for examination in more than two languages in addition to the language offered under (i), must offer Mathematics or one of the subjects 16 to 22 in the above list.

No candidate may offer for examination more than one of the subjects in each of the following groups:—

- (a) Welsh Language and Literature, Welsh.
- (b) Greek, New Testament Greek.
- (c) New Testament Greek, Scripture.
- (d) Scripture, Music, Art.
- (e) Botany, Biology.
- (f) Geography, Geology.

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\* As from June 1936 Practical Plane and Solid Geometry will be included as a full subject among the Sciences and on the same conditions as are applicable to the other Sciences.

A candidate who wishes to offer General Science may not offer one of the subjects numbered 16 to 21 above.

A candidate who wishes to count a pass both in Mechanics and in Physics must, in addition to satisfying the examiners in Mechanics as a separate subject, satisfy the examiners in Heat and Light and in Magnetism and Electricity.

The examination is held twice a year, commencing on the last Monday of January and the Monday preceding the last Saturday of June in each year.

Applications for the prescribed examination entry form must be made to the Registrar, University of Wales, Cathays Park, Cardiff, not less than four weeks before the examination, and it must be returned accompanied by the prescribed examination fee not less than three weeks before the examination.

*Fees :—*

For the January and June examinations, £3.

A candidate must have completed his sixteenth year by the 1st October next following the examination.

*Exemptions obtainable on account of examinations passed in India* —(1) Students who hold the Intermediate Examination Certificate in Arts or Science of an approved Indian University are exempted from the Matriculation Examination of the University of Wales and may pursue a degree scheme of study in the University, provided they are certified by a constituent College of the University as possessing a sufficient knowledge of English to profit by the degree scheme. The approved Indian Universities are as follows:—Agra, Aligarh, Allahabad, Andhra, Bombay, Calcutta, Dacca, Delhi, Lucknow, Madras, Mysore, Nagpur, Patna, Punjab and Rangoon.

(2) Applications for exemption from students holding the diploma of an Agricultural College in India will be considered on their individual merits

(3) Complete exemption is granted to graduates of any approved University.

(4) Exemption is also granted to students who have obtained the Cambridge School Certificate, provided that the applicant has passed *with credit* at one and the same examination in each of the subjects required under the Regulations for the Matriculation Examination (*see preceding page*).

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\* As from October 1936 the age of Matriculation will be raised to 17 years

# Scottish Universities Entrance Board.

(St. Andrews, Glasgow, Aberdeen, Edinburgh.)

*The special qualifications required by individual Universities in addition to those prescribed by the Entrance Board should be ascertained from the Authorities of each University.*

## GENERAL REGULATIONS OF THE BOARD.

Applicants for admission to the Universities of Scotland holding such of the qualifications specified below, as can be obtained in India, will be accepted by the Entrance Board as entitling them to enter a course of study qualifying for graduation, without further examination.

- (I.) A Degree of any British or Foreign University recognised by the Board.
- (II.) A First Class in the Intermediate Examination in Arts or Science in any Indian University approved<sup>\*</sup> for the purpose by the Entrance Board, provided that, in some examination leading up to the Degree of B.A. or B.Sc. in that University, the candidate has passed in Mathematics or Science, and in English.

## SPECIAL REGULATIONS.

Applicants for admission to the Scottish Universities, who are unable to comply with the General Regulations, will have their fitness to enter upon a course qualifying for graduation tested by an examination under the Board.

Applicants must select four subjects from the subjoined list, and these should include at least one from each of the first three groups:—

- (I.) English (including Literature and History).
- (II.) Mathematics, Physical Science.
- (III.) Latin, Greek, French, German, Italian, Spanish, Gaelic or such other language as may from time to time be approved by the Board (the following Indian languages have been approved:—Arabic, Bengali, Burmese, Gujarati, Hindustani (Hindi or Urdu), Kanarese (or Malayalam), Marathi, Pali, Persian, Sanskrit, Sindhi, Tamil (or Telugu).
- (IV.) Natural Science. (Any two of Chemistry, Botany, Zoology, Geography.)

In Latin, Greek and Mathematics there shall be two Standards, a Higher and a Lower, and in all other subjects there shall be a Higher Standard only.

1. The candidate must pass in (i) Mathematics or Physical Science, and (ii) one of the languages of Group III.

<sup>\*</sup> The following Indian Universities have been recognised by the Board:—Agra, Aligarh, Allahabad, Benares, Bombay, Calcutta, Dacca, Delhi, Lucknow, Madras, Mysore, Nagpur, Punjab, and Patna; the University of Rangoon has also been recognised for the purpose of this regulation. The Intermediate Examinations held by the Board of Intermediate and Secondary Education, Dacca, and by the Board of High School and Intermediate Education, United Provinces, are accepted on the same footing as those of the Indian Universities specified.

2. The candidate must pass in at least two of the subjects on the Higher Standard, and, if the candidate has passed on the Higher Standard in two subjects only, he must have passed in either (a) Latin (or Greek) and Mathematics; or (b) Latin (or Greek) or Mathematics on the Higher Standard.

3. The candidate must pass in at least three subjects on the Higher Standard unless he satisfies the requirements of either 2 (a) or 2 (b) above.

*Special Examination in English.*—Candidates whose native language is other than English are required to pass a Special Examination in English (written and oral) designed to test their ability to understand and use the language sufficiently for study at a Scottish University. It is open to them to take, instead, the Ordinary Examination in English (two papers), and an oral examination.

Candidates who do not take the ordinary Examination in English, but the Special Examination above mentioned, must in addition pass in four subjects. The only subjects in which there are Lower Standard papers are Latin, Greek and Mathematics. Nearly all Indian students will find it necessary to take at least three subjects on the Higher Standard. While a pass in the Special Examination in English will not be counted as one of the four passes required, it is accepted in fulfilment of the rule which requires a subject from Group I (English) to be taken.

### *Date of Examinations.*

Examinations are held at each of the Scottish Universities in September and March. Entries must be made to the Secretary of the University which the student desires to join. The fee should be paid not later than the 6th August for the September Examination in 1935 and the 6th February for the March Examination, 1936.

*Fee, £1 11s. 6d.*

Students desiring exemption must fill up a Form of Application for Attestation of Fitness. This form can be obtained either direct from the Secretary of the Scottish Universities Entrance Board, 81, North Street, St. Andrews, or through the University Bureau or Local Advisory Committee in India and the High Commissioner for India (Education Department), London, W.C. 2. It must be duly filled up and sent with the certificates, *in original*, on the strength of which exemption is desired, together with a postal order for 5s.

### FOR QUALIFICATION FOR ADMISSION TO AN INN OF COURT.

Students desiring to qualify for admission to the Bar should note that they must take Latin (*see* page 351), and must also take English on the same standard as is required for English students, and not the special English examination for Foreign students. They will be required by the Entrance Board to take the Oral English Examination in addition.



## The Queen's University of Belfast, Northern Ireland.

*Subjects of the Matriculation Examination.*—Entrants to the University who desire to proceed to a degree in the Faculties of Arts, Science, Applied Science and Technology, Medicine, Law, Commerce or Agriculture shall be required to pass in five subjects, to be selected as under:—

(I.) *Faculty of Arts.*—(i) English; (ii) Greek or Latin or Mathematics; (iii), (iv) and (v) Any three of the following, of which one must be a language if Greek or Latin be not taken under (ii): (a) Greek, (b) Latin, (c) French, (d) German, (e) Celtic, (f) Italian, (g) Spanish, (h) Modern History, (i) Physics or Mechanics, (j) Geography, (k) Chemistry, (l) Botany, (m) Music, (n) Mathematics.

Exemption from Mathematics is granted only to candidates who have passed in Mathematics at certain recognised examinations.

(II.) *Faculties of Science, of Medicine, and of Agriculture.*—(i) English; (ii) Mathematics; (iii), (iv) and (v) Any three of the following (of which one must be a language): (a) Greek, (b) Latin, (c) French, (d) German, (e) Italian, (f) Spanish, (g) Modern History, (h) Physics or Mechanics, (i) Geography, (j) Chemistry, (k) Botany, (l) Mechanical Drawing.

*Faculty of Medicine.*—Entrants to this Faculty must also pass (a) the Pre-Registration Examination in Physics and Chemistry, (b) a qualifying examination in Latin if they have not passed in Latin at the Matriculation or equivalent examination.

*School of Engineering.*—Special Engineering Matriculation Examination. Candidates who desire to proceed to the degree of B.Sc. in Engineering are advised to take the Special Matriculation Examination comprising the following six subjects:—

(i) English; (ii) Mathematics; (iii) Further Mathematics; (iv) Greek or Latin or French or German or Italian or Spanish; (v) Physics or Chemistry; (vi) Modern History or Geography.

NOTE.—(a) Candidates who pass the above Special Engineering Matriculation Examination at one sitting will be exempted by the Council of the Institution of Civil Engineers from the Institution Preliminary Examination.

(b) In the case of candidates who enter the School of Engineering by the above Special Engineering Matriculation Examination, the B.Sc. Degree in Engineering of this University will be recognised during the pleasure of the Council of the Institution of Civil Engineers as exempting from the Institution Associate Membership Examination.

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\* Entrants to the School of Engineering, in addition, the papers on Further Mathematics set in the Matriculation Examination, and those who pass in them will be exempted from the Preliminary Examination of Mathematics in Part I. of the Intermediate Examination, and will be allowed to attend the classes in Mathematics of Part II. during their first year.

(III.) *Faculty of Law*.—(i) English; (ii) Mathematics; (iii) Latin; (iv) and (v) Any *two* of the following: (a) Greek, (b) French, (c) German, (d) Celtic, (e) Italian, (f) Spanish, (g) Modern History, (h) Physics or Mechanics, (i) Geography, (j) Chemistry, (k) Botany.

(IV.) *Faculty of Commerce*.—(i) English; (ii) Mathematics; (iii), (iv) and (v) Any *three* of the following (of which *one* must be French or German or Spanish): (a) Greek, (b) Latin, (c) French, (d) German, (e) Italian, (f) Spanish, (g) Celtic, (h) Modern History, (i) Physics or Mechanics, (j) Geography, (k) Chemistry, (l) Botany, (m) Elementary Economics, (n) Accounting.

(V.) *Faculty of Applied Science and Technology*.—(i) English; (ii) Mathematics<sup>\*</sup>; (iii), (iv) and (v) One of the following: (a) Greek, (b) Latin, (c) French, (d) German, (e) Italian, (f) Spanish; two of the following: (g) Celtic, (h) Modern History, (i) Physics or Mechanics, (j) Geography, (k) Chemistry, (l) Botany, (m) Mechanical Drawing.

Graduates of British Universities are not required to pass the Matriculation Examination.

Exemption from the Matriculation Examination is granted to students who have passed the Intermediate Examination of a recognised Indian University. The Universities at present recognised are:—Aligarh Muslim University, Allahabad, Annamalai, Benares Hindu University, Bombay, Calcutta, Dacca, Delhi, Lucknow, Madras, Mysore, Nagpur, Patna, Punjab, and Rangoon. The Intermediate Examinations held by the Board of High School and Intermediate Education of the United Provinces and of the Board of Intermediate and Secondary Education, Dacca, are also recognised as exempting from the Matriculation Examination.

*Applications*.—The necessary forms of application, duly filled up, must be returned to the Secretary, with the prescribed fee, not later than 22nd April for the summer examination, and not later than 26th August for the autumn examination, or, with an additional late fee, not later than 13th May or 19th September respectively, after which no entry will be received.

*Fee*, £2 2s. *Late fee*, £1 1s. (extra).

<sup>\*</sup> See footnote, page 32.

## University of Dublin.

### Trinity College.

*Subjects for the Matriculation Examination.*—English Composition; Arithmetic; Algebra; Geometry; English History and Modern Geography; Latin with Latin Composition; and any one of the following languages:—Greek, Irish, French, German, Italian, Spanish.

Special books are prescribed in these subjects, and a *viva voce* examination will be required.

*Exemptions.*—Candidates who have passed the Examination for Leaving Certificates held by the Department of Education in the Irish Free State or the Examination for Senior Certificates held by the Ministry of Education in Northern Ireland, or any examination regarded by the Senior Lecturer as equivalent thereto, are qualified for entrance into Trinity College, on passing, if required to do so by the Senior Lecturer, a further examination in those subjects, if any, of the Trinity College Entrance Examination which are not included in those in which they have already passed.

Candidates who have passed the examinations for School Certificates, or for Higher School Certificates held by the Local Examination Boards of the Universities of Oxford and Cambridge, or the Joint Matriculation Examination held by the Northern Universities of England, with credit in all or any of the subjects required for the Entrance Examination of Trinity College, are allowed to matriculate without further examination in these subjects.

Examinations are held in January, April, June, October and November.

For further information, students should apply to one of the Tutor Fellows who receive pupils, the names of whom are as follows:—

John Fraser, M.A.; R. M. Gwynn, B.D.; Sir Robert W. Tate, M.A.; H. Thrift, M.A.; A. A. Luce, D.D.; Joseph Johnston, M.A.; J. M. Henry, M.A.; Francis La T. Godfrey, M.A.; H. W. Parke, Litt.D.; G. A. Duncan, M.A., LL.B.; T. S. Broderick, M.A.

## National University of Ireland.

A Common Matriculation Examination is held by the University for students desiring to study for degrees in the Colleges at Cork, Dublin and Galway. This examination, preceding the courses in the Colleges, is conducted in relation to the University as a whole.

(a) All students must pass in five subjects. All students must pass in Group 1, except students not born in Ireland and other students whose home residence shall have been outside Ireland during the three years immediately preceding their matriculation; but all such students will be expected to attend a course of instruction in Irish Literature and History prior to obtaining any degree in the University.

(b) The following are the groups of subjects for this examination:—

- (1) Irish;
- (2) Latin or Greek;
- (3) French, German, Italian, Spanish, Portuguese, Welsh, or any other modern language approved by the Senate;
- (4) English;
- (5) Mathematics;
- (6) Latin, Greek, French, German, Welsh, Spanish, Portuguese, Italian, or any other modern language approved by the Senate, History, Geography, Applied Mathematics or Physics *as an alternative*, Chemistry, Botany, Agricultural Science, Commerce, Music, and, for women candidates only, Physiology and Hygiene.

*Candidates must present five subjects, but may present six subjects if they so desire.*

Candidates who under the regulations are exempted from the necessity of presenting Irish as one of their subjects, may present as their fifth subject *either a second language or a second Science subject.*

The subjects to be taken vary in accordance with the Regulations of the Faculty which the student desires to enter.

Provided that the subjects required have been passed the University will accept the Cambridge School Certificate (which can be taken in India) in lieu of the Matriculation Examination.

No Indian qualifications are recognised as exempting from the Matriculation of the National University of Ireland.

*Fee, £3.*

The Senate has decided that, in and after 1934, Latin or a Modern Continental Language will be one of the obligatory subjects for Matriculation in the Faculties of Science, Commerce and Engineering.

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SECTION II

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UNIVERSITIES AND COLLEGES

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Course.	Period of Study.	Tuition Fees (per Session).	Examination Fees
<b>DEGREES—con'.</b>			
<b>FACULTY OF MEDICINE.</b>			
M.B. Ch.B. - - -	6 years -	£ 140 7 0 (for full tuition course, payable in three annual instalments). 61 8 6 (for clinical fees).	£ 21 5 0
B.D.S. (including L.D.S.) - -	7 years -	127 17 0 (for full tuition course). Dental Hospital fees:— 35 14 0 (for two years' dental hospital practice). 111 11 5 (for two years' mechanical pupilage). 21 0 0 (general hospital practice).	37 10 0
<b>DIPLOMAS.</b>			
L.D.S. (h) - - -	5 years -	109 2 0 (University tuition fee) Dental pupilage and Hospital fees as for B.D.S. 13 2 6 (general hospital practice).	25 0 0
Malting and Brewing (i) (j) -	3 years -	32 0 0 (1st year) 42 0 0 (2nd year). 35 0 0 (3rd year).	8 15 0
Education (k) - - -	1 year -	35 0 0	3 15 0
Social Study (l) - - -	2 years -	(Not exceeding 12 10 0)	1 5 0
Public Health (m) - - -	12 months -	52 10 0 15 15 0 (special courses).	12 10 0
Coal Mining Diploma, Joint (n) -	1 year -	60 0 0	5 0 0

Higher and Research Degrees.	Courses.	Tuition Fees (per Session).	Examination Fees.
M.A.,	M.A. -	£ 12 10 0	£ 6 5 0
M.Sc.,	M.Sc. -	22 10 0(o)	6 5 0
M.Com.	M.Com. -	12 10 0	6 5 0
LL.M.	LL.M. -	12 10 0	5 0 0
M.D.,	M.D. -	—	12 10 0
Ch.M.	Ch.M. -	—	12 10 0

These degrees are obtainable by graduates of Birmingham University or another recognised University (the approval of the University authorities having been obtained in each case) after one or more years' regular study or research.

Are open to graduates in medicine of the Birmingham University after one year's study or research, and to graduates of other Universities holding registrable qualifications after two years' study or research under the direction of the University, subject to the approval of the authorities in each case.

Higher and Research Degrees		Courses	Tuition Fees (per Session)	Examination Fees
			£ s. d.	£ s. d.
M.D. (State Medicine).	Open to graduates in medicine of Birmingham University and to graduates of other approved British or Colonial Universities giving registrable qualifications who possess D.P.R. registrable by the General Medical Council, and have been engaged for one year (in the case of Birmingham graduates) or two years (in the case of other graduates) in post-graduate study of State Medicine under conditions approved by the University in each case.	M.D.	—	12 10 0
Ph.D.	Open to students holding a degree of an approved University. Candidates are required to pursue an approved full course of advanced study or research for not less than two years under the supervision of the University. A thesis must be presented.	Ph.D.	Science: £20 (Mathematics) £30 (other subjects). Arts, Commerce, Law, £20. Medicine: £10 10s. p.a. exclusive of laboratory fees.	12 10 0
D.Litt.,	Each is open to students three years after the Master's degree has been taken or five years after the Bachelor's degree and is awarded on the presentation of printed published work approved by the University.	—	—	12 10 0
D.Sc.		—	—	12 10 0
LL.D.		—	—	12 10 0

## NOTES.

- (a) The matriculation certificates of candidates who wish to study in the Faculty of Arts must include Latin or Greek, and a modern European language; those candidates who wish to study in the Faculty of Law must include Latin.
- (b) Special Honours Schools in: Classics, French, German, English, History, Social and Political Science, Economics, Mathematics, Philosophy, Geography, Italian, Spanish. Also degree with Honours in various Groups, each of three subjects.
- (c) In this Faculty, additional fees are:—
  - (i) £2 2s. per session for all Practical Chemistry students.
  - (ii) £1 caution money from 1st year Chemistry students.
  - (iii) £2 caution money from all other Chemistry students.
- (d) Honours Schools in: Mathematics, Physics, Chemistry, Zoology, Botany, Geology, Geology with Geography, Anatomy, Physiology.
- (e) Ordinary or Honours Schools in: Mechanical, Civil or Electrical Engineering.
- (f) The course is a four-year course at the end of which a student qualifies for the Degree in Honours. If, however, at the end of that time the required standard for Honours is not reached, the Ordinary Degree may be conferred.
- (g) Six months' mining experience is necessary before a student can be admitted to a degree.

- (h) Students must first have passed a preliminary examination recognised by the General Medical Council.
- (i) There is also a B.Sc. Degree course with Industrial Fermentation as principal subject (*see* page 38).
- (j) Candidates before admission to this course must satisfy the Registrar that they have reached matriculation standard in English, Mathematics and Chemistry. The certificates of the Joint Matriculation Board of the Northern Universities or of any examination recognised by the Board will suffice.
- (k) Open to graduates of Universities of the United Kingdom.
- (l) These courses are suitable as preparation for public administration, charity organisation, factory welfare, &c., &c. Minimum requirement for admission to the course: School Certificate.
- (m) Open to candidates holding a qualification registrable by the General Medical Council. The examinations are held in March, in June, and in October of each year, and Parts I. and II. can be taken either separately or together. *See also* page 245.
- (n) There are two Joint Diplomas, the Joint Coal Mining Diploma of the Universities of Oxford and Birmingham and the Joint Coal Mining Diploma of the Universities of Cambridge and Birmingham. These diplomas are only open to Oxford and Cambridge graduates in Engineering; period of study, fees, &c., are the same for both.
- (o) But if Mathematics be the subject of research, £12 10s.

#### EXEMPTIONS.

Graduates of Indian Universities may make application to the Faculty concerned for exemption from the first year course and examination. Applications should be addressed to the Registrar.

#### GUILD OF UNDERGRADUATES' UNION.

The University membership fee of £3 3s. per session carries with it membership of the Union.

#### HALLS OF RESIDENCE.

*Women.*—University House, Edgbaston Park Road, accommodates about 80 students—£68 5s. to £78 15s. a session.

*Men.*—Chancellor's Hall, Augustus Road, accommodates about 100 students—£63 to £75 a session.

#### BOARD AND LODGING.

Students who cannot be accommodated in a hall of residence are required to live in lodgings approved by the University. The cost of board and lodging may be estimated at approximately £1 10s. to £2 10s. per week.

A list of approved lodgings is kept at the Secretary's Office in Edmund Street, and the Secretary is always willing to advise students about residence.

*GENERAL NOTE.*—*The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Registrar, The University, Birmingham.*



# University of Bristol.

Unless it is otherwise so stated, a student entering on any course must have qualified for Matriculation or have been exempted therefrom.

For particulars of the Matriculation qualification, see pages 2-3.

Matriculation Fee, £3 3s.; Registration Fee, £1 10s.

Course.	Period of Study.	Tuition Fees	Total Examination Fees.	Degree Fees
<b>DEGREES.</b>				
B.A. (Ordinary)	3 years	£ s. d. 25 4 0 (per annum)	10 10 0	£ 2 12 6
B.A. (Honours) (a)	4 years	25 4 0 (per annum)	10 10 0	2 12 6
B.A. (Commerce)	3 years	25 4 0 (per annum)	10 10 0	2 12 6
B.Sc. (Pure Science—Ordinary)	3 years	(c) 31 10 0 (per annum)	10 10 0	2 12 6
B.Sc. (Pure Science—Honours) (b)	4 years	(c) 31 10 0 (per annum)	10 10 0	2 12 6
B.Sc. (Agriculture)	3 years*	276 0 0 (for three years).	12 12 0	2 12 6
B.Sc. (Engineering—Ordinary): Civil Mechanical Electrical	3 years	42 0 0 (per annum)	10 10 0	2 12 6
B.Sc. (Engineering—Honours): Civil Mechanical Electrical Automobile				
	4 years (d)	42 0 0 (per annum)	10 10 0	2 12 6
<b>MEDICINE.</b>				
M.B., Ch.B.	6 years†	1st year £31 10s., and afterwards £36 15s. (per annum) which includes clinical fees. 225 15 0	18 18 0	2 12 6
B.D.S.	5 years†		23 12 6	2 12 6
<b>LAW.</b>				
LL.B. (Ordinary)	3 years	25 4 0 (per annum)	10 10 0	2 12 6
LL.B. (Honours) (e)	3 years	25 4 0 (per annum)	10 10 0	2 12 6
<b>DIPLOMAS.</b>				
Diploma in Engineering (f)	3 years	42 0 0 (per annum)	9 19 6	—
Diploma in Education (g)	1 year	25 4 0	5 5 0	—
Testamur in Social Study	2 years	1st year, £16 10s. 2nd year (if taken), £11 11s plus £2 2s. for each repeated course. 12 12 0	(included in fees).	—
Higher Testamur in Social Study.	1 year		—	—
L.D.S. (h)	5 years†	210 0 0	23 2 0	—

\* A candidate for the degree of B.Sc. (Agriculture) who is exempted from the Intermediate Examination must pursue, in lieu of the ordinary first year's work, such courses as may be determined by the Dean of the Faculty of Science and the Reader in Agriculture. In practice this means that although a candidate's qualifications may exempt him from the first part of the curriculum, it will not be possible to shorten in any way the prescribed period for the degree, i.e. three years.

† Including the course for the Preliminary Science Examination.

Higher and Research Degrees. (1)		Course Fees.	Examination Fees	Degree Fees
M.A.,	These degrees are open to graduates of recognised Universities, whose qualifications are approved by the University authorities, and can be obtained after two or three years' study and research, according to the circumstances of the candidate. It is necessary to submit a dissertation. For the M.A. (1) Bachelors of Arts of not less than two years' standing as such who have graduated with honours or some other degree or diploma declared by Senate to be at least equivalent thereto; (2) Bachelors of Arts of not less than three years' standing as such who hold an ordinary degree or some other degree or diploma declared by Senate to be at least equivalent thereto, may become candidates for the degree. For the M.Sc., a student who has not obtained an Honours B.Sc. Degree shall be required to pass such further examination as Senate may prescribe before being admitted as a candidate. A student who has obtained an honours degree in Science of the University may proceed to the M.Sc. after one year.	£ s. d. 6 6 0 to 9 9 0 per annum	£ s. d. 7 7 0	£ s. d. 2 12 6
M.Sc.,		21 0 0 per annum	7 7 0	2 12 6
Ph.D.		21 0 0 per annum	9 9 0	4 4 0
LL.M.	Open to persons who not less than two years previously attained in this University or in any other University the degree of Bachelor of Laws or some other Degree or Diploma declared by Senate to be at least equivalent thereto	6 6 0 to 9 9 0	7 7 0	2 12 6
Ch.M.,	Are only open to candidates who have graduated in Medicine at the University. They require two years' study and the presentation of a dissertation, either in addition to or in substitution for an examination.	—	17 17 0	7 7 0
M.D.		—	17 17 0	7 7 0
D.Litt.,	Open to candidates holding higher degrees of the University of Bristol. The D.Litt. may be taken four years after the M.A., the D.Sc. four years after the M.Sc. (or in some cases three years), or three years after the Ph.D.	—	17 17 0	7 7 0
D.Sc.		—	17 17 0	7 7 0
LL.D.	The LL.D. may be taken four years after the LL.M.	—	17 17 0	7 7 0

## NOTES.

- (a) Includes Honours Schools in Classics, Greek, Latin, French, German, English, History, Philosophy, Geography, Economics, Philosophy, Pure Mathematics
- (b) Honours Schools in Mathematics, Physics, Chemistry, Geology, Zoology, Botany, Physiology, Geography and General Science.
- (c) There are also necessary laboratory deposits varying from 10s. to £5

- (d) Four years for the degree of B.Sc. in Engineering with Honours. The competence of a candidate to pursue the curriculum for the degree with Honours shall be determined by the Engineering Board at the end of the second stage of the curriculum.
- (e) Candidates for the degree of Bachelor of Laws with Honours shall be required to attend a course of study approved by the University in the Faculty of Law for two years after passing the Intermediate examination and to reach a higher standard than that which is required from candidates for the ordinary degree in the papers set under Regulation 7 and in addition to satisfy the Examiners in :—
- (i) An Essay paper.
  - (ii) Two special subjects to be selected from a list prescribed from time to time by the Board of the Faculty of Law.
  - (iii) A *Viva Voce* examination.
- (f) Students entering on the course for the Diploma in Engineering are not required to qualify for matriculation, but must satisfy the Dean that their previous education is sufficient to enable them to follow the course with advantage. This may be done either by producing certificates or by passing an examination (fee, £1 11s. 6d.).
- (g) Candidates must be of graduate standing.
- (h) Candidates must have passed an entrance examination approved by the University and recognised by the General Medical Council (see page 194).
- (i) Fees for tuition and supervision vary according to the subjects studied and the courses attended.

## EXEMPTIONS.

### *Faculties of Arts, Science and Law :—*

No definite regulations have been laid down as regards concessions in the Faculties of Arts and Science, but consideration will be given to individual applications.

### *\* Faculty of Engineering :—*

The minimum qualification for admission to the course of study leading to a degree or diploma in Engineering is success in the Intermediate Science Examination of an approved Indian University with Mathematics, Physics and Chemistry as three of the subjects.

Candidates who have obtained the Diploma of the Thomason Civil Engineering College, Roorkee, will have their applications considered on their merits; the maximum exemption given will be the first year of the course.

## STUDENTS' SOCIETIES.

Every undergraduate and every other full-time student is by ordinance required to contribute to the funds of the Union £3 3s. per annum.

Students who do not live in a Hall of Residence are required to pay a fee of 10s. 6d. per annum to the Home Students' Societies.

## HALLS OF RESIDENCE.

For Men Students:—*Mortimer House, Clifton*, Fees from £75 to £82 10s. per annum, and *Wills Hall, Stoke Bishop*, Fees from £78 15s. to £100 per annum.

For Women Students:—*Clifton Hill House*, including *Callander House*; *Manor Hall, Clifton*. Fees from £63 per session.

\* The conditions for admission are under review, and it is probable that only candidates who have been placed in the First or Second Class in the Intermediate Science Examination of an approved Indian University, with Mathematics, Physics and Chemistry as three of the subjects taken in the examination, will be accepted for admission.

The University requires that each student should spend at least on year of his course in a Hall of Residence provided that accommodation in the Hall is available.

Before a room in a Hall is reserved for a candidate not living in the British Isles, he is required to pay a deposit of one term's fees.

#### BOARD AND LODGING.

For students not residing in a hostel, the cost of board and lodging may be estimated at approximately £2 per week upwards.

The Registrar of the University should, however, be consulted, as usually a list of approved and registered lodgings is kept.

*GENERAL NOTE.—The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India and the High Commissioner for India (Education Department), London, or direct from the Registrar, The University, Bristol.*

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Gonville and Caius College requires £8 tuition fee for first term to be paid in advance, and Selwyn College requires a deposit of £1 on application.

### UNIVERSITY TERMS.

The academical year commences in October and consists of three terms. Students generally begin their residence in the Michaelmas (October) term. It is important to note that any student beginning his residence in the Lent (January) term is examined in the same triposes as those who entered the University in the preceding October; but anyone entering in the Easter term is examined with those who go into residence in the following October. Overseas students are seldom admitted as bye-termists, i.e. after the Michaelmas Term.

The University Statutes require a residence of nine terms before proceeding to the degree of B.A. or LL.B., and in the case of candidates for Honours these nine terms of residence must be consecutive.

### RESIDENCE.

Residence, if it is to count towards the keeping of a term, must be either in a College or in licensed lodgings; in any case the place of residence must be within an area prescribed by the University.

Rooms in College are assigned as soon as possible, but not usually to freshmen; in most Colleges the scholars have the first choice. Furniture in College rooms can usually be taken at valuation from the preceding tenant, and in some Colleges rooms are let ready furnished.

Until accommodation can be found for students in College they usually reside in licensed lodgings, which are taken by the Tutor, and in this case it should be noted that these lodgings, unless the contract be expressly stated, are supposed to be taken for a single term only. Students are therefore at liberty to leave at the end of a term, provided they give notice at half term; this may be given verbally, but it is wise to give it in writing. On the other hand, the lodging-house keeper is at liberty to let the lodgings for the subsequent term to another tenant. In any case, it is advisable for students to consult their Tutors with regard to licensed lodging accommodation.

Those students, however, who by choice or of necessity reside in licensed lodgings are required to be present at dinner in the College Hall on a stated number of days in the week.

### THE LONG VACATION.

Residence in vacation time is not usually allowed by the Colleges except under special circumstances, but during the

Long Vacation in the months of July and August it is usual to allow a certain number of students reading for Honours to reside in the precincts of the Colleges for a period of from six to seven weeks, and the same permission is often granted to medical students. In medical and science subjects, courses of lectures are provided, while laboratories are open for demonstrations and private work. To those students whose studies are dependent upon laboratories and libraries, residence in the Long Vacation is often indispensable.

### EXPENSES.

The cost of living at the University varies greatly, and it is almost impossible to make any satisfactory estimate that will serve as a guide in a particular case, since so much depends upon the tastes and means of individual students. In many cases College fees and rent charged for college rooms have been raised, and the cost of living in Cambridge, as elsewhere, has greatly increased, affecting such items as board, books, clothes, travelling and other personal expenses.

In the total expenses of undergraduates at Cambridge, the following are the most important :—

- (1) Fees charged by the University for matriculation, dues, examinations and degrees
- (2) Fees charged by or through the Colleges for establishment charges, &c.
- (3) Board and lodging.
- (4) Books, clothes, travelling and other personal expenses.
- (5) Keep during the three vacations.
- (6) Certain initial expenses, such as caution money and the expenses of furnishing a student's room, should he be given accommodation in a College.

Initial expenses may be as low as £43 and as high as £110; probably for an average student, the actual amount would be about £60 to £65. In the case, however, of students living in lodgings, there would be a reduction of £15 to £20 on the valuation of the furniture, but as it is general for students to reside at least one year in College, which may be in the second or third year of residence, this reduction need not be taken into consideration.

With regard to University and College fees the University Matriculation fee is £5, and for tuition fee and College dues, &c., an average figure would be about £55 per annum.

For board and residence during term, the average expenditure would be £120 to £140 per annum. Personal expenses during this period entirely depend on the student concerned, but a sum of £60 to £70 might be taken as an average. It is

strongly advised, however, that students join one or more of the various College clubs, take up a summer and a winter sport, and in fact join to their utmost in the corporate life of the College.

Possible additions to the above expenditure would be the cost of residence in the University during the Long Vacation, lecture and laboratory fees and private tuition.

There would also be the cost of board and residence during the vacations, which would be from £2 15s. to £4 4s. or even £5 5s. per week, personal expenses during this period, an extra sum for holidays and for contingencies, such as doctor's and dentist's fees, &c.

The total expenses of a student, including fees and keep during the vacation, could hardly be less than £340 to £400 per annum in a College and slightly less, probably about £300 to £360, for a non-collegiate student.

### UNIVERSITY AND COLLEGE TEACHING.

The work of teaching is divided between the University and the Colleges, part of it being undertaken by the staff of professors, readers, University lecturers and demonstrators, and part by the more numerous body of College lecturers, the distribution of which does not appear, at first sight, to be determined by any fixed principle, but it is roughly true to say that Colleges concern themselves especially with older subjects, such as Mathematics, Classics and Theology, while the history of the development of such subjects as the different branches of Natural Science has made it inevitable that they should be provided for to a large extent by the University.

The formal lectures of the University professors are usually open to all members of the University without fee, and for College lectures a reduced fee is charged to members of the College. The usual fee for a single course of inter-collegiate lectures, given three times a week, is £1 11s. 6d., but the fee for some of the courses in Natural Science, Engineering and Modern Languages is considerably more.

### Degrees and Examinations.

Degree.	Period of Study.	University Degree Fee (s.).	Examination Fee.	Examination consisting of—
Ordinary B A. -	3 years -	£ 3	£ s. 9 0	
Honours B A. :—				
Anthropology	3 years -	3	5 0	Pt. II. only—taken by Honours students only.
Classics -	3 years -	3	5 0	Pt. I. and II. for degree.
Economics -	3 years -	3	5 0	Pt. I. and II.
English -	3 years -	3	5 0	A and B.
Geography -	3 years -	3	5 0	Pt. I. and II.
History -	3 years -	3	5 0	Pt. I. and II.
Law -	3 years -	3	5 0	Pt. I. and II.

## DEGREES AND EXAMINATIONS—continued.

Degree.	Period of Study.	University Degree Fee (at).	Examination Fee.	Examination consisting of—
Honours B.A.— <i>cont.</i>		£	£ s.	
Mathematics -	3 years -	3	5 0	Pt. I. and II.
Mechanical Science.	3 years -	3	5 0	Qual. Exam. then Mech. Science Examination.
Modern and Medieval Languages }	3 years -	3	5 0	Pt. I. and II.
Moral Science	3 years -	3	5 0	Pt. I. and II.
Natural Science	3 years -	3	5 0	Pt. I. only.
Theology -	3 years -	3	5 0	A and B.
Cert. of Profcy.:				
Agriculture -	3 years -	3	4 0	Three examinations *
Estate Management.	3 years -	3	4 0	Three examinations.
Architectural Studies.	3 years -	3	3 0	Three examinations.
Engineering Studies.	3 years -	3	4 0	Three examinations.
M.A. -	—	3	—	A matter of time, usually about 6 years.
B.D. -	—	10	3 3	Dissertation.
D.D. -	—	25	10 10(b)	Dissertation.
LL.B. -	3 years - (2 years for research student).	3	3 3	Honours in both part Tripos, or Honours in 1 part Law Tripos and in some other Honours Examination.
LL.M. -	—	3	3 3	1st class both parts Law, or Dissertation (See Reg.)
LL.D. -	—	25	10 10	Dissertation.
M.B. (c) -	About 6 years	6	18 18	Three parts.
B.Ch. -	—	—	6 0	No separate examination. Admission to degree as soon as passed both parts of third M.B.
M.D. (d) -	—	25	4 4	Thesis.
M.Ch. (e) -	—	8	3 3	Exam. held twice a year.
Mus.B. -	3 years -	6	—	Pt. I. and II.
Mus.M. -	—	8	—	Pt. I. and II.
Mus.D. -	—	25	5 5	Not more than 3 of the candidate's own works.
M.Litt. -	2 years -	5	10 0	Submitting thesis.
M.Sc. -	2 years -	5	10 0	
Sc.D. -	—	25	10 10 (f)	Thesis.
Litt.D. -	—	25	10 10 (f)	Thesis.
Ph.D. -	3 years -	6	10 0 (g)	Submitting a Dissertation.

\* Also entitles the student to graduation.

## NOTES.

(a) College degree fees are additional.

(b) In the case of a student who has already proceeded to a degree in the University, the fee is £4.

(c) See also page 210.

(d) This degree is open to holders of the M.B. degree 3 years after inauguration, and to holders of the M.A. degree 4 years after creation, but these latter must have become legally qualified to practise medicine.

(e) This degree is open to holders of the B.Ch. degree 2 years after inauguration, and to holders of the M.A. degree at any time after creation, but these latter must have become legally entitled to practise medicine.

(f) If degree is granted, this sum will form part of the University degree fee.

(g) In addition:—£5 Matriculation Fee; £2 2s. per term supervision Fee; £5 5s. per term work in Lab. or Museum, and also the cost of the publication of the Thesis (which is required by the Regulations).



## DIPLOMAS.

A.—OPEN TO CANDIDATES NOT MEMBERS OF THE UNIVERSITY, AS WELL AS TO MEMBERS OF THE UNIVERSITY.

Diploma.	Length of Course.	Examination Fees	Preliminary Qualifications required.
Geography -	3 terms -	£ s. d. 1 0 0 (for members of the University). 6 0 0 (for non-members of the University)	Good general education, and qualifications to study Geography.
Theory and Practice of Teaching (Certificate)	1 year	25 0 0	Degree of recognised University and acceptance at Cambridge or in some other recognised College
Medical Radiology -	—	12 12 0	This diploma is only open to students holding a registrable medical qualification. For fuller details, see Section III. Medicine. "Postgraduate degrees and diplomas" (see p 248)

NOTE.—Candidates for Diplomas receiving University instruction who are not members of the University are required to have their names enrolled at the Registry on an official Register of Candidates for Diplomas and Certificates, and to pay a fee of £1 11s. 6d. in respect of each quarter during which or any portion of which their name is enrolled on the Register.

B.—OPEN TO MEMBERS OF THE UNIVERSITY ONLY.

Diploma	Examination Fees.	Obtained by —
Agricultural Science -	£5 - - -	Examination (see pp. 320-321)
Anthropology -	Dissertation £5 5s., Examination £4 4s.	(i) By dissertation; (ii) By examination.
Architecture -	See Regulations - -	Two examinations.
Classical Archaeology -	£5 5s. - - -	Examination.
Co -	£1 1s. - - -	Actual work done at Birmingham.
Postgraduate Internal Diploma in Education	Thesis, £4 4s., and £1 for the Diploma	Thesis.
Oriental Languages -	Members £1 10s. each part; Non-members* £3 each part; £5 for language not regularly included in Tripos.	Parts I. and II.
Certificate in Foreign Languages.	£5 for each language -	Examination in one or more languages in Pt. I. of the Modern and Mediæval Language Tripos.

\* When admitted under exceptional circumstances.

## Exemptions.

Exemptions from any portion of the courses or period of residence prescribed for the Bachelor's degree are only granted to affiliated students.

### REGULATIONS FOR AFFILIATED STUDENTS.

1. A student who has been a member of an Associated Institution for not less than three years, and who, before matriculation at the University of Cambridge, has graduated, or done all that is necessary for graduation, at that Associated Institution, shall be entitled to be approved as an affiliated student, either on or after matriculation.\*

2. An affiliated student shall have the following privileges:—

- (i) Exemption from the Previous Examination.
- (ii) The right to claim that his first term kept by residence shall be reckoned as his second, or third, or fourth term of residence for the purposes of the Regulations for Triposes, Degree Examinations in Music, and Degrees other than the Ordinary B.A. Degree or the Degree of M.Sc., M.Litt. and Ph.D.

3. The Indian Universities at present approved as Associated Institutions are :—

Agra,	Dacca,	Mysore,
Aligarh,	Delhi,	Patna,
Allahabad,	Lucknow,	Punjab,
Bombay,	Madras,	Rangoon.
Calcutta,		

4. Applications from students of other Indian Universities will receive individual consideration and will be decided on their merits.

### RESEARCH STUDENTS.

The University of Cambridge awards the research Degrees of Ph.D., M.Litt. and M.Sc.

Applications for admission as research students must be accompanied by—

- (i) a diploma or other certificate of graduation at a University (in Original);
- (ii) a statement of the degree desired;
- (iii) a statement as to the specific course of research which the applicant desires to pursue, together with such evidence of qualification, attainments, and previous study

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\* A student who desires to apply for affiliation would, therefore, have to include with his application, in addition to his original degree certificate, a formal certificate properly signed and executed (not stamped) by the accredited authority of his University to the effect that he had been a member of that University for not less than three years.

as he may be able to submit; three **original** testimonials are necessary, bearing particularly on aptitude for original work;

(iv) a certificate or declaration that the applicant has attained the age of 21 years.

The actual specific subject of research must be stated. Such terms as "Botany," "Zoology," &c., will only delay an application. Candidates for admission as research students should be careful to outline their proposed course as fully as possible, and to submit conclusive evidence of their ability to carry out research.

The application should be made several months before the commencement of the term in which the applicant proposes to begin his course. (Late application may jeopardise admission.)

It is open to the Board to refuse the application if the course of research cannot be conveniently pursued at the University, or if they are of opinion that the applicant is insufficiently qualified. If the application is granted, the course must be pursued as prescribed.

To obtain the Ph.D. Degree, three years' research must be carried out; to obtain the M.Litt. or M.Sc. Degree, two years. A candidate for the Degree of Doctor of Philosophy may be exempted from one year of research if he satisfies the Board of Research Studies that he has already been for not less than one year engaged upon research to the satisfaction of the authorities under whom he has worked, and of the Board. Certain other exemptions are possible, and are detailed in the Regulations for Research Students, which can be obtained from the Registry of the University. *At least two years' residence in Cambridge is necessary for any Cambridge degree to be obtained.*

**GENERAL NOTE.**—*The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India and the High Commissioner for India (Education Department), London, or direct from the Secretary to the Inter-Collegiate Committee for Indian Students, 22, Fitzwilliam Street, Cambridge.*

## Cambridge Colleges for Women.

The University has now power to award titles of degrees to women, but the conditions attached in the Statute do not give such women full privileges.

### Girton College.

Students are required to pass or gain exemption from the Cambridge Previous Examination (*see* pages 4-5) and to pass an Entrance Examination and to furnish references and a satisfactory certificate of character. They may enter in the Michaelmas or Easter Terms.

The Entrance Examination is held at the College in March, and candidates must take a General Paper and *one* of the following sections:—Mathematics, Classics, Moral Sciences, Natural Sciences, History, Modern Languages, English, Geography, Economics.

The Council are prepared to consider special applications for exemption from the Entrance Examination.

The courses of study are those laid down for the University of Cambridge.

### EXPENSES.

The charge (liable to revision) for board, lodging, and instruction is £50 per term, paid in advance. This sum covers everything except University fees and purely personal expenses, such as washing, and books for the student's private use. It does not cover the Long Vacation, though students desiring to continue their studies at Cambridge during this period may reside at the College in July and August at a charge varying in accordance with the number of weeks for which they may wish to stay.

### Newnham College.

Applicants must be at least 18 years of age, and must produce satisfactory references.

Students must pass the Previous Examination or obtain exemption therefrom, **and** either the College Entrance Examination or the College Scholarship Examination. It should be noted that candidates who pass the Entrance Examination will not necessarily be admitted, as the number of admissions depends on the number of vacancies available in any year. The case of candidates who have not passed the above examinations but wish to offer other evidence of qualification for admission will be specially considered.

### COLLEGE FEES.

The College fees are £45 a term for an ordinary single room, £48 a term for a larger room, and £50 a term for a

double set of rooms. These fees include all charges for board and lodging, and for the teaching required in preparation for Tripos Examinations. University and Examination fees for the complete Degree Course amount to about £17.

The charge for board and lodging in the Long Vacation is £2 2s. a week.

### **Cambridge Training College for Women (Post-Graduate).**

The College is one of the institutions for the training of Secondary Teachers which are formally recognised by the Board of Education.

Candidates must possess an approved degree conferred by some University of recognised standing.

Courses, each consisting of three terms, begin in September and in January. Students may take at the end of their course the examination held in June and December by the Teachers' Training Syndicate of the University of Cambridge.

The fees for the year's course of 30 weeks, including all charges for tuition and residence and examination fee, amount to £125. To students willing to share a larger room a reduction of £10 per annum will be made.

All students are required to live in College, under the care of the Principal, unless the Council grant special permission for other arrangements.

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# Durham University.

## Armstrong College, Newcastle-upon-Tyne.

Unless it is otherwise so stated, a student entering on any course must previously have qualified to Matriculate in Armstrong College in the University of Durham.

For particulars regarding Matriculation Examination, see pages 6-7.

Matriculation Fee (on entry). £2; Annual Registration Fee, £2; Diploma Entrance Examination Fee, £2.

Course.	Period of Study.	Tuition Fees (per Annum).	Examination and Degree Fees.
<b>DEGREES.</b>			
B.A. (Pass (a) or Honours (b)) -	3 to 4 years (m)	£ s. d. 30 0 0	£ s. d. 11 10 0
B.Arch. -	5 years	30 0 0	6 0 0
B.Com. (Pass) -	3 years	First, second and third years. 22 10 0 Fourth and fifth years. 30 0 0	11 10 0
B.Sc. (Pure Science) (Pass or Honours (c)).	3-4 years (m)	35 0 0	11 10 0 (Pass).
B.Sc. (Agriculture) (Pass or Honours (d)).	3-4 years (m)		14 10 0 (Hons.) involving 4 years.
B.Sc. (Civil, Electrical, Marine or Mechanical Engineering, Naval Architecture, Mining, Metallurgy) (Pass or Honours).	3-4 years (m)	40 0 0	
LL.B. -	3 years	30 0 0	11 10 0
<b>DIPLOMAS.</b>			
Diploma in Teaching (e) -	1 year	35 0 0	6 0 0
" " Agriculture (f) (g) -	3 winters of 2 terms each.	22 10 0	7 0 0
" " Commerce -	2 years	(no composition fee).	10 0 (per subject).
" " Engineering: Naval Architecture (h).	3 years	40 0 0	7 0 0
" " Mining, Mine Surveying (i).	3 years	40 0 0	7 0 0
" " Architecture (j) -	5 years	3 years at £25 each. 2 years at £20 each.	5 0 0
" " Fine Art (k) -	4 years	16 0 0	10 0 per subject.
Certificate in Fine Art (l) -	4 years		

Higher and Research Degrees.		Tuition Fees (per Session).	Examina- tion Fees.
		£ s. d.	£ s. d.
D.Sc.	} Only open to Graduates of Durham University holding degree of M.Sc. or M.A. respectively.	—	10 10 0
D.Litt.			
M.A., M.Com.	} Only open to Graduates of Durham University	—	5 0 0
M.Sc.			5 0 0
	{ Open to approved graduates of recognised Universities after two years' advanced study or research in the Durham University.	—	
Ph.D.	{ Open to approved graduates of recognised Universities after two years' research under the direction of the Durham University. A thesis is necessary.	18 0 0	10 10 0
		for full-time research in laboratory subjects.	
		12 0 0	
		for full-time research in non-laboratory subjects.	
M.Litt.	{ Only open to Graduates in Arts, Commerce or Letters of Durham University. For Graduates in Arts or Commerce after two years' research under the direction of Durham University.	—	5 0 0
		7 10 0	5 0 0
M.Ed.	{ Open to graduates of approved Universities holding approved certificates in the Theory and Practice of Teaching. A thesis is necessary.	10 0 0	—
LL.M.	{ Open to graduates of approved Universities. A thesis is necessary.	—	—

## NOTES.

- (a) Includes courses in Latin, Greek and Ancient History, English Language and Literature, Modern History, Mental and Moral Philosophy, French, German and Spanish, Economics, Mathematics, Fine Art, Music, Geography, Religious Knowledge, Science.
- (b) Includes Honours Schools in Latin and Greek, Latin and French, Latin Language and Literature, Mathematics, English Language and Literature, English and Latin Literature, French Language and Literature, German Language and Literature, French and German, Modern History, Philosophy, English Literature and Philosophy, Philosophy with either Latin or French or German, Economics; Philosophy, History and Economics; Fine Art, Geography.
- (c) Includes Honours Schools in Mathematics, Pure and Applied, and Physics, Pure and Applied Mathematics, Physics, Chemistry, Geology, Zoology, Botany, Physiology and Geography.
- (d) Includes courses in Agriculture, Chemistry, Botany, Zoology, Pure Mathematics, Applied Mathematics, Physics, Organic Chemistry, Anatomy and Physiology of Farm Animals, Veterinary Hygiene, Land Surveying, Economic Zoology, Geology, Law of Landlord and Tenant, Farm Accountancy and Costings, Forestry, Entomology, and Farm Implements and Machinery, Bacteriology.
- (e) Open to graduates of recognised Universities.
- (f) Candidates are not required to pass the Matriculation Examination or an equivalent but must satisfy the College authorities as to their general education.
- (g) Students are expected to do practical work on a farm during the summer.
- (h) Candidates for admission to this course must pass a special Examination in English, Extra Mathematics, Mechanics, Physics and Chemistry, or obtain exemption on the same conditions as for the Matriculation.
- (i) Armstrong College is approved for the granting of Diplomas in Mining in accordance with the provisions of the Coal Mines Act, 1911. Intending students are required to satisfy the Head of the Department as to their suitability to profit by the Course.

- (j) Students must give proof of having reached a certain standard of general education, viz., that required for the Probationership of the Royal Institute of British Architects.
- (k) Candidates shall satisfy the Professor concerned of their fitness to enter upon the course and present a certificate (or certificates) showing that they have passed one of the examinations accepted for the purpose of matriculation, with credit in Art, English, and one modern foreign language.
- (l) Candidates are not required to pass an Entrance Examination, but must satisfy the Professor of Fine Art of their general and artistic qualifications.
- (m) The normal course for a pass degree covers a period of three years and that for an honours degree a period of four years.

#### EXEMPTIONS.

The Intermediate of an Indian University is recognised as qualifying under certain conditions for Matriculation (see page 7). For students proposing to read for the degree of B.Sc. in Agriculture, the Diploma of the Agricultural College, Cawnpore, is also recognised for Matriculation purposes, subject to the receipt of satisfactory testimonials from the College on the student's work, especially in Chemistry and Botany.

Indian graduates may be admitted to status of advanced student to read for Ph.D. Degree if Senate is satisfied that the candidate's qualifications justify such admission.

In the Faculty of Science, exemption may be granted from the first year of study provided that an equivalent course of study has been pursued at some approved institution, and exemption may be obtained from the 1st year Examination provided that an equivalent examination has been passed elsewhere; but applications should be made, accompanied by original certificates, to the Registrar of Armstrong College, and the Faculty may require foreign or Oriental students to pass the 1st year Examination before entrance. Exemption is not likely to be granted to Indian students possessing less than a degree qualification.

#### STUDENTS' SOCIETIES.

Men pay £3 13s. 6d. per annum, including subscription to the University Union and Athletic Societies.

Women pay £3 13s. 6d. per annum, including subscription to the Women Students' University Union and Athletic Societies.

#### HOSTELS.

There is a hostel for men and a hostel for women, but vacancies in the latter are reserved in the first instance for students recognised by the Board of Education under the Regulations for the Training of Teachers.

#### BOARD AND LODGING.

The cost of board and lodging may be estimated at approximately £2 per week.

The Registrar of the College may, however, be consulted, as a list of lodgings is kept.

**GENERAL NOTE.**—*The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Registrar, Armstrong College, Newcastle-upon-Tyne.*



## Durham University.

### Durham Colleges.

The following Colleges provide three-year courses for the B.A. Degree, Pass or Honours(a), and for the B.Sc. Degree in Pure Science, Pass or Honours(b). The Matriculation Examination must be passed or exemption therefrom obtained (*see* pages 8-9).

Fees, including Admission,  
Tuition, Examinations, Board and  
Lodging, Subscriptions, and Gratuities.

	Per annum.
University College -	£113 and £5 caution money.
Hatfield College -	£104 .. ..
St. Chad's College -	£110 .. ..
St. John's College -	£110 .. ..
St. Mary's College (for women) -	£106 .. ..
Non-Collegiate students or home students (women) -	£30 (University fees, including club subscriptions).

Diploma in Education—One year (for postgraduates), an additional fee of £2.

An additional fee of £6 per annum is in all cases charged to a Student in Science.

(a) Honours Schools in Theology, Classical and General Literature, Mathematics, English Language and Literature, French Language and Literature, German Language and Literature, Modern History, Geography.

(b) Honours Schools in Mathematics (Pure and Applied), Physics, Chemistry, Geology and Botany.

The fees charged by the various Colleges are inclusive, *i.e.*, they cover University fees as well as purely College fees.

A non-collegiate student pays £30 annually to the University for tuition fees, £2 for an examination fee, and then in addition he has to meet the cost of board and lodging. In most cases this would amount to at least £2 10s. a week.

*The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Secretary to the Council of the Durham Colleges, University Offices, Durham.*

## Durham University.

### College of Medicine at Newcastle-upon-Tyne.

Unless it is otherwise so stated, a student entering on any course must have passed the School Certificate Examination of the University of Durham or have been exempted therefrom.

For particulars of the School Certificate Examination, see page 10.

Annual Registration Fees: £1 for full-time students; 10s. for occasional students.

Course.	Period of Study.	Tuition Fees (Composition Fees).	Examina- tion Fees.	Degree and Diploma Fees.
		£ s. d.	£ s. d.	£ s. d.
M.B., B.S. (a)	5 years after registration as a medical student.	186 18 6*	30 0 0	13 2 0
B.Hy. (b)	1 year (including 6 months' course under M.O.H.).	21 0 0 To M.O.H.:	12 12 0	6 16 0
L.D.S. (a)	4 years after registration as a dental student (including mechanical pupillage and dental hospital practice).	221 16 0	15 10 0	3 0 0
B.D.S.	5 years after registration as a dental student (including mechanical pupillage and dental hospital practice).	236 16 0	23 0 0	6 16 0
<b>DIPLOMAS.</b>				
D.P.H. (c)	1 year (including 6 months' course under M.O.H.).	21 0 0 To M.O.H.:	12 12 0	3 0 0
Diploma in Psy- chiatry (c)	1 year (about)	21 0 0 35 0 0	10 10 0	3 0 0

Higher and Research Degrees.	Examina- tion Fee.	Degree Fee.
	£ s. d.	£ s. d.
M.S., M.D., D.Hy., M.D.S. or Ph.D. can be obtained two years after qualification, but three years is required for the D.Ch. In the D.Hy. and Ph.D. the student must present a thesis. For the M.D. he may (i) present a thesis, or (ii) undergo a Special Examination. The M.S. can be obtained by examination (d).	M.S. - M.D. - D.Hy. - Ph.D. - D.Ch. - M.D.S.	5 0 0 5 0 0 20 0 0 10 10 0 20 0 0 5 0 0 6 6 0 10 0 0 10 0 0 5 0 0 10 0 0 6 6 0

\* Plus incidentals

\* Includes fee for degree.

#### NOTES.

- (a) Students must be registered by the General Medical Council (see page 194).  
 (b) Student must be a Graduate in Medicine and Surgery of a recognised University.  
 (c) Student must hold a qualification registrable by the General Medical Council (see pages 217, 245 and 244).  
 (d) See "General Note" on page 61.

The Authorities of the College desire that all applications be submitted to the Dean of the College through the Office of the High Commissioner for India, Education Department, India House, Aldwych, London, W.C. 2.

The Authorities of the College also wish to point out that, owing to the limited accommodation available for students who require instruction in the preliminary subjects (particularly anatomy and physiology), it is not possible to guarantee to provide other than clinical instruction for students who are not reading for the medical degrees of the University of Durham.

## EXEMPTIONS.

(1) Full particulars as to Matriculation and as to the regulations under which students from India are exempted are set out under Section I dealing with University Entrance Examinations (see page 10).

(2) The University requires a period of *bonâ fide* study during not less than five years, and hospital practice must be attended during the last three years. At least three of the five years of professional education shall be spent at the College of Medicine and Royal Victoria Infirmary, Newcastle-upon-Tyne; but students may spend the other two years of study either at Newcastle or at one or more of the medical schools recognised by the University.

Certain courses of instruction taken in India are recognised by the Faculty of Medicine of the University of Durham, *provided the scope and standard correspond to those of the courses in the subjects in the University*, i.e. the courses of instruction are recognised *pro tanto* if taken at one or more of the following medical schools, viz. :—

Bombay University -	-	Grant Medical College. Seth Gordhandas Sunderdas Medical College.
Calcutta University -	-	Calcutta Medical College. Carmichael Medical College.
Lucknow University -	-	King George's Medical College.
Madras University -	-	Madras Medical College.
Patna University -	-	Patna Medical College.
Punjab University -	-	Lahore Medical College. Lady Hardinge Medical College.
Rangoon University -	-	Rangoon Medical College.

(3) All the professional examinations of the University of Durham must be passed, and no exemption from them will be granted by virtue of examinations passed in India.

(4) Students who intend to study for qualifications other than the degrees of the University will not be required to comply with the regulations mentioned above and on page 10, though they must produce a certificate from the Examining Body, whose qualifications they intend to take, that they have been accepted as students for such purpose; but under no circumstances whatever will students be allowed to attend the hospital practice at the Royal Victoria Infirmary unless evidence is produced that they have passed an examination in Anatomy and Physiology of one of the recognised Examining Bodies or an examination in those subjects accepted in lieu thereof.

Students must bring with them satisfactory testimonials of character from the Deans of the Medical Colleges attended by them in India, and also from the Deans of any Colleges attended by them in the United Kingdom, and submit them to the Dean of the College of Medicine for approval before admission.

## STUDENTS' SOCIETIES.

Students are required to pay a subscription of £5 5s. annually for College and University clubs.

## BOARD AND LODGING.

The cost of board and lodging may be estimated at approximately £2 to £3 per week.

The Dean of the College should, however, be consulted, as usually a list of approved and registered lodgings is kept.

GENERAL NOTE.—*The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Dean, University of Durham College of Medicine, Newcastle-upon-Tyne.*

## Leeds University.

Unless it is otherwise so stated, a student entering on any course must have passed the Matriculation Examination or have been exempted therefrom.

For particulars of the Matriculation Examination, see pages 12-18.

Registration Fee, £5 (Research and Ph.D. candidates, £2).

Applications from overseas students for admission to the University should reach the Registrar not later than 31st May in each year.

All tuition fees are payable in advance at the beginning of the session.

Course.	Period of Study.	Tuition Fee (including Union Fee).	Examination Fees (including Matriculation)	Degree Fee (including Convocation Fee)
DEGREES.				
B.A. (a) (Ordinary and Honours. (b))	3 years	£ s. d. 31 0 0 (1st session).	£ s. d. 5 0 0	£ s. d. 7 0 0
B.Com	3 years	28 0 0 (4th year).		
B.Sc. (Pure Science)	3 or 4 years (according to subject)	42 0 0 31 0 0 (4th year).	5 0 0	7 0 0
B.Sc. (Honours in Mathematics).	3 or 4 years	12 0 0 (1st and 2nd year).		
		31 0 0 (3rd year).	8 0 0	7 0 0
		28 0 0 (4th year).		
B.Sc. (Engineering — Civil, Mechanical, Electrical, Mining, Gas, Dyeing, Fuel and Metallurgy; Leather).	3 years	46 0 0	8 0 0	7 0 0
B.Sc. (Textiles)	3 years	*56 0 0	8 0 0	7 0 0
B.Sc. (Honours in Colour Chemistry; Gas Engineering; Fuel and Metallurgy; Leather).	4 years	46 0 0 38 0 0 (4th year).	8 0 0	7 0 0
LL.B.	3 years	14 11 0 (per session).	8 0 0	7 0 0
B.Sc. (Agriculture) (c)	3 years	42 0 0 (1st year).	8 0 0	7 0 0
		46 0 0 (per session, 2nd and 3rd year).		
B.Sc. Honours (Agriculture) (c).	4 years	42 0 0 (1st year).	8 0 0	7 0 0
		46 0 0 (2nd, 3rd and 4th years)		
MEDICINE.				
M.B., Ch.B. (complete course)	5½ years	242 0 0 (if paid in one sum in advance).	20 0 0	(Convocation Fee £1, payable on conferment of Degree)
		260 0 0 (if paid in instalments: £51, £51, £51, £41, £15).		

\* Including special charge for the use of technical equipment and materials.

Course.	Period of Study.	Tuition Fee (including Union Fee).	Examination Fee (including Matriculation)	Degree Fee (including Convocation Fee)
<b>DEGREES—cont.</b>				
<b>MEDICINE—cont.</b>				
M.B., Ch.B. (students excused first examination).	4½ years -	£ s. d. 230 0 0 (if paid in one sum in advance) 245 0 0 (if paid in instalments: £51, £51, £51, £11)	20 0 0	(Convocation Fee £1, payable on conferment of Degree).
Final M.B. (after passing 2nd M.B.).	3 years -	153 0 0 (or three annual instalments of £53).		
In addition to the fees given above, all Medical students are required to pay a fee of £35 15s. in respect of 13 weeks' compulsory residence in the University Maternity Hostel.				
<b>DENTISTRY.</b>				
B.Ch.D. (complete course, including Pulpilage, Dental and General Hospital practice and Union Fees).	5½ years -	265 0 0 (if paid in one sum in advance). 250 0 0 (if paid in annual instalments: £86, £61, £51, £51, £31).	18 0 0	7 0 0
L.D.S. (d) ditto -	4½ years -	238 0 0 (if paid in one sum in advance). 247 0 0 (if paid in annual instalments: £86, £61, £61, £39)	16 0 0	6 0 0
<b>DIPLOMAS.</b>				
Diploma in:				
Commerce (e) -	1 year -	34 0 0	3 0 0	—
Social Organisation and Public Service.	2 years -	27 0 0 (per session).	3 0 0	—
Education -	1 year (e) -	35 0 0	3 0 0	—
Educational Administration (f).	2 sessions -	5 5 0	1 1 0	—
	1 session -	3 3 0		
Public Administration (f)	2 sessions -	9 0 0 (per session).	2 0 0	—
Public Health (D.P.H.) (g) including a Special Course in Sanitation (M.O.H., Leeds).	Not less than 12 months.	60 18 0	12 12 0	—
Diploma in Psych. Medicine (h).	1 year -	10 10 0	6 6 0	—
Diploma in Eng'g. (i), (j), Fuel and Metallurgy (h), Gas Engineering (h).	3 years -	46 0 0 (session).	6 0 0	—
Diploma in Leather -	3 years -	46 0 0 (session).	6 0 0	—
Diploma in Colour Chemistry and Dyeing.	3 years -	46 0 0 (session).	6 0 0	—
Diploma in Agriculture -	3 winters and 1 summer.	73 0 0	6 0 0	—
Diploma in Textile Industries	3 years -	*56 0 0 (session).	6 0 0	—

\* Including special charge for the use of technical equipment and materials.

## HIGHER AND RESEARCH DEGREES.

The M.A., LL.M., M.D., Ch.M. Degrees are open to graduates of the Leeds University after one year; the M.Ed. Degree after two years, in the first of which is taken the Diploma in Education; and the M.Sc. after two years (Hons. Science graduates of Leeds University after one year).

The Litt.D., D.Sc. Degrees may be obtained by Masters of Arts and Science respectively or Doctors of Philosophy of Leeds University six years after the Bachelorship.

The M.A. may be obtained by examination, by dissertation or by both. The M.Sc. is awarded after research on presentation of a satisfactory thesis.

Students who are graduates of other recognised Universities may obtain the M.A., M.Sc., M.Ed., or Ph.D. by two years' research at the University.

The Ph.D. is open to graduates (or equivalent) of recognised Universities. They must pursue a course of two years' advanced study and research under the direction of the University (the second year or part may be spent in another approved University Institution, if deemed advisable by the Senate). The proposed course must be first submitted for the approval of the University. Candidates will be required to present a thesis and to undergo an oral examination (and if required a written examination) on completion of the course of advanced study and research. Application should be made to the Clerk to the Senate.

## NOTES.

- (a) For the Degree of Bachelor of Arts, either as an ordinary degree or as a degree with honours, a candidate of non-European descent, who is a native of Asia or Africa, may be allowed to substitute one of the following languages for Latin, provided that he shall also give evidence of possessing a sufficient knowledge of English: Arabic, Sanskrit, Persian, Pali, Classical Chinese.
- (b) Honours Schools in Classics, Greek, Greek-English, Latin, Latin-English, Latin-French, Latin-Spanish, English Language and Literature, Modern Languages and Literature, French Language and Literature, German Language and Literature, Russian Language and Literature, Spanish Language and Literature, History, Geography, Philosophy, Economic and Political Science, Mathematics.
- (c) Candidates must have spent one year on an approved farm before entering the Department, but exceptions to this condition *may* be allowed in the case of candidates for Honours in Agricultural Chemistry, Agricultural Botany or Agricultural Zoology.
- (d) Preliminary Examination in Arts or Science recognised by the General Medical Council must be passed (*see* page 194).
- (e) Applicant must be a graduate of the United Kingdom or hold an equivalent qualification recognised by the University of Leeds.
- (f) This Diploma involves attendance on two evenings per week throughout two terms of two sessions.
- (g) Holders of a qualification registrable by the General Medical Council for not less than 12 months (before entering for first part of examination) (*see* page 245).
- (h) Holders of a qualification registrable by the General Medical Council for not less than 12 months (*see* page 241).
- (i) For a Diploma in Mining, Matriculation or other approved equivalent examination (including Mathematics) is required.
- (j) There are also fees for materials varying from 10s. to £3 3s.
- (k) This Diploma can be taken by graduates of Leeds or of other recognised Universities, who have graduated in the required subjects after one year's course.

## EXEMPTIONS.

This University has not found it possible to draw up a scheme of exemption for students from Indian Universities, but is prepared to consider each application on its merits.

## COLLEGE SOCIETIES

All whole-time students are required to pay an annual subscription of £3 to the University Union. This is included in the composition fee. All students attending the University for more than six hours a week who have not paid the composition fee for the year will be required to pay this, as also students joining the Medical Faculty for the Final M.B. course only.

## HOSTELS.

*Halls of Residence.*—Men —Devonshire Hall, £64 per session, or, if paid by instalments, £33 and £32, payable on the first day of the first and second terms respectively. All meals are provided in the Hostel.

*Women.*—Oxley Hall, Lyddon Hall, College Hall, and Weetwood Hall. Fees vary from £54 to £63 for session of 32 weeks.

No remission of fees will be granted for absence from a hostel except under special circumstances.

## BOARD AND LODGING.

A register of approved lodgings is kept at the University, and no student is allowed to live in a lodging not approved by the University. Communications concerning lodgings should be addressed to the Supervisor of Lodgings, University of Leeds. The cost of board and lodgings may be estimated at approximately £2 2s per week.

*GENERAL NOTE.*—The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India and the High Commissioner for India (Education Department), London, or direct from the Registrar, The University, Leeds.

Course.	Period of Study.	Tuition Fees for the whole Course.	*Examination and Degree Fees.
<b>CERTIFICATES.</b>			
Separate Arts Subjects . . . .	2 years . .	£ s. d. as for separate courses.	£ s. d. 3 0 0
Social Science (r) . . . .	1 or 2 years . .	28 0 0	3 0 0
Engineering (s) . . . .	2 or 3 years . .	96 0 0 to 141 0 0	8 0 0
Archæology (t) . . . .	2 years . .	30 0 0	3 0 0
Civic Design . . . .	4 terms . .	10 0 0	3 0 0
Education . . . .	1 year . .	20 0 0	3 0 0
Architectural Design . . . .	1 year . .	35 0 0	3 0 0

Higher and Research Degrees.	Course.	Sectional or Tuition Fees	Examination and Degree Fees.
<p>Graduates of Liverpool and of other approved Universities may be allowed, under prescribed regulations, to proceed to the degrees of M.A., M.Com., M.Sc., M.Eng., LL.M., Ph.D., and must pursue their course of higher study or research for the prescribed period in each case under the direction of the University.</p> <p>The M.V.Sc. is open to candidates who hold equivalent to Liverpool B.V.Sc.</p> <p>The M.Arch. is open to Bachelors of Architecture (Liverpool) of not less than 10 years' standing who have produced architectural work of a distinguished character.</p> <p>Ch.M.: Open to candidates holding Liverpool M.B., Ch.B. on examination, after two years' course.</p> <p>M.D.S.: Open to candidates holding Liverpool M.B., Ch.B., or equivalent, on thesis and examination</p> <p>M.Ch. Orth.: Open to candidates holding M.B., Ch.B., or equivalent; on examination, after 15 months' prescribed course.</p> <p>Litt.D., D.Sc., LL.D., D.Eng.: Open to Masters in the Faculty concerned, of five years' standing (Litt.D. seven years from B.A.) who must have distinguished themselves by original contributions to learning. D.V.Sc. similarly, but after three years' standing after taking M.V.Sc. Doctors of Philosophy (Science) may proceed to D.Sc. after four years and Doctors of Philosophy (Engineering) may proceed to D.Eng. after five years.</p>	M.A., M.Com. or LL.M.	£ 5	£ s. d. 8 0 0
	M.Sc. :—		
	Mathematics . . . .	5	} 8 0 0
	Other subjects (plus £10 per annum for apparatus)	10	
	M.Arch. . . . .	—	8 0 0
	M.V.Sc. (plus £10 per annum for apparatus).	30	10 0 0
	M.Eng. (by research) (plus £10 per annum for apparatus).	20	8 0 0
	Ph.D. (plus £10 per annum for apparatus).	27	13 0 0
	Ch.M. . . . .	20	10 0 0
	M.D.S. Mainly by Research.	22	} 10 0 0
	M.D.S. Mainly by Examination.	27	
	M.Ch.Orth. (u) . . . .	41	10 0 0
	Litt.D. . . . .	—	15 0 0
	D.Sc. . . . .	—	15 0 0
	LL.D. . . . .	—	15 0 0
	D.Eng. . . . .	—	15 0 0
	D.V.Sc. . . . .	—	15 0 0



Higher and Research Degrees.	Course.	Sessional or Tuition Fees.	Examination and Degree Fees.
<p>M.D.: Open to graduates in Medicine (M.B., Ch.B.):—</p> <p>(a) <i>Thesis</i>.—Two years' standing. Thesis, and, if desired, published work. Oral examination on subject of thesis.</p> <p>(b) <i>Examination</i>.—Five years' standing. Examination in Medicine and in a selected branch of Medicine.</p>	M.D. . . . .	£ 10	£ s. d. 15 0 0

NOTE.—Applications for registration shall be accompanied by detailed references certifying as to character and educational qualifications.

#### NOTES.

- (a) The degree of B.A. is awarded either as a degree in General Studies or as a degree in Special Studies. Honours may be awarded in either. Candidates for degree in Special Studies may present themselves in any one of the following Schools:—Classics, French, Hispanic Studies, Italian, German, Russian, English Language and Literature, Celtic, Ancient History, Medieval and Modern History, Philosophy, Economics, Geography, Social Science, Jurisprudence.
- (b) Honours in Commerce and Administration, Economics or Geography.
- (c) Honours Schools in Mathematics, Physics, Chemistry, Zoology, Botany, Physiology, Biochemistry, Geology, Bacteriology, Oceanography.
- (d) Including clinical fees.
- (e) This course can be taken by matriculated students concurrently with that for the M.R.C.V.S.
- (f) Candidates must produce evidence of good general education. The diploma course is identical with the B.Arch. course. For the degree candidates are required to pass, or be exempted from, the Matriculation Examination.
- (g) Open to holders of a First Class Certificate in Civic Design, graduates in Architecture, Members of R.I.B.A., and to others with approximately equivalent qualifications and experience.
- (h) Open to approved students (Department of Education) who have passed the final examination for Liverpool University B.A. or B.Sc. and graduates of Liverpool University or approved University or who have passed the final examination for a degree in such University.
- (i) Open to students who pursue the degree course of three years, but have not passed the Matriculation Examination. They must have had, however, a good general education.
- (j) Candidates must produce evidence of satisfactory general educational qualifications.
- (k) Open to holders of the certificate in Archaeology.
- (l) Open to candidates who hold a registrable medical qualification. (In the case of D.P.H. the qualification must have been held for two years before the Final D.P.H. examination.) (See also pages 245, 252 and 250.)
- (m) Open to holders of Liverpool D.T.M. and approved qualification in Medicine and Surgery. (See page 253.)
- (n) Open to candidates who hold a registrable qualification to practise Veterinary Medicine and Surgery. Regulations under revision.
- (o) A candidate need not pass the matriculation, but must satisfy the Preliminary educational requirements of the General Medical Council (see page 194).

- (p) This corresponds generally to the B.V.Sc. Course of the University. Students need not pass the matriculation, but must satisfy the preliminary educational requirements of the Royal College of Veterinary Surgeons (see page 401).
- (q) Candidates must produce evidence that they have pursued the science or practice of Engineering for two years (one of which to be devoted to Higher study) after the third examination for the certificate. It may be obtained by dissertation.
- (r) Candidates must produce satisfactory evidence of ability to profit by the course.
- (s) Candidates must normally attend three sessions, but under certain conditions one year may be remitted.
- (t) Candidates must be not less than 19 years of age and must produce satisfactory evidence of ability to profit by the course.
- (u) Open to (a) graduates in Medicine of the University of Liverpool or other approved University; (b) graduates in a Faculty other than Medicine (Liverpool or other approved Universities) who are Fellows of the Royal College of Surgeons of England, Edinburgh or Ireland, or of the American College of Surgeons.

### EXEMPTIONS.

This University has not found it possible to draw up a scheme of exemptions for students from Indian Universities, but is prepared to consider each application on its merits.

The Faculty of Engineering has power to exempt a candidate from any or all of the subjects of the Intermediate examination if he has passed an approved Higher School Certificate examination in the group containing Mathematics and Science, or in the group containing Mathematics as the main subject of study and has reached a standard deemed to be satisfactory in the subject or subjects exempted.

The Faculty of Science has power to exempt a candidate from the Intermediate examination if he has passed the Higher School Certificate examination and has attained a standard deemed to be satisfactory in three subjects of the Intermediate examination.

In the Faculty of Medicine holders of the Higher School Certificate who have passed in the principal subjects of Chemistry and Physics are exempted from the courses in Chemistry and Physics in the first of the prescribed six years of study and from the First M.B. examination (Parts A and C) on payment of the prescribed fee for the First M.B. examination. This exemption does not permit of the degree course being less than the six years prescribed by Ordinance.

### COLLEGE STUDENTS.

All students taking the full-time course must pay £3 3s. 0d. subscription annually to the Guild of Undergraduates.

### HOSTELS.

*Men.*—Ashton Rathbone Hall and Rankin Hall, Ullet Road, Liverpool. Fees £70 for three terms.

*Women.*—University Hall. Fees £65 to £72 per session.

### BOARD AND LODGING.

For students not residing in a hostel, the cost of board and lodging may be estimated at approximately £1 15s. to £3 per week.

All undergraduates not permanently resident in Great Britain are required to reside in approved lodgings, unless exempted by the Vice-Chancellor.

**GENERAL NOTE.**—The above general particulars should be verified in each case, and fuller information can be obtained either through the *Principal* or the Local Advisory Committee in India, and the *Principal* for India (Education Department), London, or direct from the Registrar, The University, Liverpool.

## University of London.

All students desirous of proceeding to a degree must first become matriculated students. This may be done by passing the ordinary matriculation examination of the University of London, or one of the examinations accepted in lieu thereof. (See pages 19-25.)

A student who desires to take a degree in the University of London has two methods: he may become either an Internal Student or an External Student. The essential difference is that Internal Students are required to pursue a recognised course of study at an Incorporated College (University College or King's College) or at a School of the University, or under recognised University teachers at certain institutions in London, whereas External Students (except in Medicine, Engineering, Mining, Pharmacy and Architecture) may pursue their studies where they like, the only requirement being that the specified period shall elapse between the examinations. Under the Statutes of the University all External Students are required to register at the University for the particular examination they desire to take by a date prescribed in the Regulations, and unless such registration is effected they will not be eligible to enter for the examination itself. Full particulars are published in the Regulations of each Faculty.

It is sometimes possible, under the Regulations, for a student arriving in the middle of a year to attend the remainder of the course at one of the Colleges, and although he would not thereby be entitled to take the examinations as an Internal, he might do so as an External Student; but in view of the fact that most vacancies are filled in October for the whole session such admission is rarely obtainable.

The administrative offices of the University as a whole are situated at South Kensington, S.W. 7, and general enquiries—

- (a) relating to Internal degrees, should be addressed in the first instance to the Academic Registrar at that address;
- (b) relating to Special University Entrance Examination and External degrees, to the External Registrar at the same address;
- (c) relating to the Matriculation Examination, to the Secretary to the Matriculation and School Examinations Council at the same address.

Special attention should be drawn to the fact that matriculation at the University, or exemption therefrom, merely entitles a student to work for a degree. It does not by itself grant admission to a College of the University; nor is there any compulsion on the College to grant admission on the strength of matriculation. It is true that it may be treated by a constituent College as a necessary preliminary for admission, but the admission itself is completely within the discretion of the authority of the individual institution concerned. Definite applications for admission to a college or school of the University for the necessary course of study should, therefore, be addressed to the College or Institution and not to the University.

The Degree Examinations in Theology, Arts, Laws, Science, Engineering, Economics, and Commerce are held in June, and in certain cases in November (for External Students only), and the M.A. Examination in May and December.

### HIGHER DEGREES.

The D.Lit., the D.Sc. and the LL.D. are only open to candidates who already hold a Ph.D. or Master's Degree of the University of London itself in the appropriate Faculty.

To proceed to a Ph.D., M.A. or other higher degree of the London University a student must have pursued the full anterior courses of the University, *e.g.*, for the M.A. he must have already passed the B.A. (with Honours in many cases); but if he be a graduate of another University he can make application to the Senate of the University for leave to proceed direct to the Master's or Ph.D. degree in any Faculty, after two years' course of study as an Internal Student. The necessary Form of Application should be obtained either direct from the Academic Registrar of the University of London, South Kensington, S.W. 7, or through the University Bureau or Local Advisory Committee in India, and when returning the form the applicant will have to produce full evidence of the study he has already pursued and as to his fitness to enter upon the proposed course of study or research work. Special attention is drawn to the fact that no decision on such an application can be obtained from the University during the Long Vacation (July, August and September), and care should be taken to submit it in time to reach the University by 1st May. The University strongly advises overseas students not to leave their own country until the decision is available. A student can only take the examinations as an Internal Student and must pursue a course in the University or under the supervision of the University, extending over a period of not less than two years' full-time study or a longer period of part-time study. A candidate for the Ph.D. Degree who is required to pass a qualifying examination must do so *before* beginning his Ph.D. course of study. It may be added that applications from a considerable number of graduates of the principal Indian Universities for registration as Internal Students and as candidates for Higher Degrees have been approved.

The following points should be noted:—

*Higher Degrees in subjects common to the Faculties of Science and Engineering.*—Graduates in Science or Engineering desiring to proceed to the Master's (or Ph.D.) Degree in a subject falling within the purview of both the Faculty of Science and the Faculty of Engineering will be required to proceed to such Degree in the Faculty in which they have taken a first Degree.

*Ph.D. in Biochemistry.*—Candidates desirous of proceeding to post-graduate studies for the higher degrees in Biochemistry of M.Sc. or Ph.D. should understand that if in the opinion of the Heads of the Departments concerned students have not a sufficient knowledge both of Biology or Chemistry they may be obliged to take at least one year's additional study in either subject before being allowed to register for the higher degree in Biochemistry.

*M.A. English.*—As a general rule the Board of Studies is not disposed to accept such candidates unless their qualifications are exceptionally good and unless they pass a qualifying examination consisting of all or part of the B.A. Honours Degree papers. This includes a considerable knowledge of Old English (Anglo-Saxon), and unless this subject has been studied in the degree course in India a candidate would normally require at least two years' study before being in a position to pass a qualifying examination. Candidates would therefore be well advised to consider whether it would not be preferable for them to apply for the B.A. Honours Course with exemption from the First Year and the Intermediate Examination (*see* pages 73–74).

*M.A. Honours in History, Modern and Medieval.*—Similar conditions as for the B.A. Honours (Branch II) (*see* page 74) with regard to a knowledge of Latin and at least one modern European language would probably be required.

All candidates for the M.A. Degree Examination in History who do not hold either a first or second class Honours Degree in History of the University of London, or a Degree from a University elsewhere which may be adjudged an equivalent qualification in History, will be required, before proceeding to the M.A. Examination, to take Papers 1 to 6 in the relevant branch of the B.A. Honours Examination (see page 74) and to reach at least second-class standard therein.

*M.A. in Education.*—This degree may be obtained in any one of the following four sections :—

- (a) Principles and Practice of Education.
- (b) Theory and History of Educational Institutions and Administration.
- (c) Pedagogical research.
- (d) Philosophy and History of Education.

Only graduates of the University of London or other approved Universities are eligible for admission to the course for this Degree; it extends for at least two years, but the approved course for the Teacher's Diploma for Internal Students may count as one year of the course. Special attention is drawn to the fact that candidates for admission to the M.A. must submit for approval of the University either—

- (a) evidence of having had not less than three years' teaching experience (in the case of section (c) two years) subsequent to passing the examination for the London Teacher's Diploma or other approved examination accepted in lieu thereof; or
- (b) evidence of having had not less than five years' teaching experience, including not less than one year's experience subsequent to passing the examination for the Teacher's Diploma or other approved examination accepted in lieu thereof.

The University of London does not as a general rule accept the Teacher's Diploma or B.Ed. of Indian Universities as equivalent to its own Teacher's Diploma, and students for the M.A. Degree in Education would therefore have to spend at least one year in obtaining teaching experience in this country subsequent to the London Teacher's Diploma (see also page 86).

*Ph.D. in Education.*—Applicants must have passed the Teacher's Diploma of the University of London and fulfil such further requirements as may be laid down in this case by the University, including attendance at a course extending over two years (full-time) or three to four years (part-time).

*LL.M.*—Candidates for the LL.M. are warned that, as a general rule, it is likely that they will be required to pass a qualifying examination. This should be taken in the June preceding the opening of their first session in October, if possible, but candidates will generally be allowed to take it at the end of their first academic year. The examination would be of the LL.B. standard and would probably consist of papers appropriate to their proposed LL.M. course.

#### EXEMPTIONS.

- (1) *Matriculation* (see pages 19–25).
- (2) *Degrees.*

*External.*—External Students are not entitled to any exemption from examinations above matriculation on account of examinations passed elsewhere. This is a rule of completely general application that applies to all External Students.

Students resident outside Great Britain contemplating a course of study for an External Examination should always as a first step consult the External Registrar, who will, without charge, consider such study proposals and advise as to their suitability.

*Internal.*—(i) The Senate can allow graduates of other Universities to proceed as candidates for a Bachelor's Degree in Theology, Arts, Laws, Music, Pharmacy, Science, Engineering, Economics and Commerce, without taking the Intermediate Examination, after they have pursued an approved course of studies as Internal Students, comprising all the subjects in which they present themselves, the course to extend over not less than two years. Such graduates would be required to have pursued a course extending over not less than three years before admission as Internal Students, and would have to satisfy the Senate that the subjects already studied qualify them for the particular degree course in question.

It may be accepted as a general rule that, in any case, exemption is not likely to be given from the Intermediate Examination except in those subjects in the Intermediate Examination in which the applicant has passed at a satisfactory standard in his final degree examination in India.

In such cases, if exemption from the First Year course and part of the Intermediate be granted, it may be required that the candidate should pass the Intermediate Examination in the subject or subjects from which he has not been exempted at the end of his first year's attendance at the University.

It may, however, be noted that to obtain exemption from the Intermediate B.A. it is essential that a student should have included among his other subjects in his Final Examination (or possibly in his Intermediate Examination) Latin or a recognised classical Oriental language, failing which he would have to take either Latin or such classical language at the end of his first year. A modern European or Oriental language is not accepted in lieu thereof.

(ii) Applications from Indian students should be made on the prescribed form, which can be obtained from the appropriate University Bureau or Local Advisory Committee in India, and should be received by the University not later than the 1st May, in order that students whose applications are acceded to may, if possible, be informed of the decision of the Senate in time for them to enter upon their course of study early in October, at the beginning of the Session.

(iii) It should be noted that each application is considered individually and that exemption cannot be claimed as a matter of course.

*B.A. (General or Honours).*—The Bachelor's Degree of the University in the Faculty of Arts can be taken either as a B.A. (General) or B.A. (Honours). The first-year course and the Intermediate Examination are the same in both cases. For the Final B.A. (General), three subjects must be taken, of which one must be a language other than the candidate's own language; for the B.A. (Honours) one principal subject only is required, accompanied as a rule by a subsidiary subject of the standard of the B.A. (General).

The list of successful candidates for the B.A. General Examination is arranged in three divisions, and that for the Honours Examination is divided into: First Class Honours, Second Class Honours and Third Class Honours. A pass B.A. Degree cannot be awarded at an Honours B.A. Examination.

*B.Sc. (General or Special).*—In the Faculty of Science the Bachelor's Degree can be obtained as a B.Sc. (General) or a B.Sc. (Special). The first-year course and the Intermediate Examination are the same in

both cases. The B.Sc. (General) is awarded to candidates who pass the Final Examination in three subjects. The B.Sc. (Special) (which is equivalent to the *Honours* Degree in the Faculty of Arts) is awarded to candidates who pass in a principal subject and in a subsidiary subject. The list of successful candidates at either examination is divided into First Class Honours, Second Class Honours or a Pass Degree.

*B.A. Honours in English.*—Attention is drawn to the fact that this course is not confined to English Literature, but covers both language and literature and a considerable amount of philological study, including Anglo-Saxon and Early English. An Indian candidate, even if exempted from the First Year course and the Intermediate Examination would find considerable difficulty in covering the course in two years unless he had a good prior knowledge of Anglo-Saxon and Early English.

It should also be noted that under the latest regulations the subsidiary subject must consist of another language and literature.

*B.A. Honours in History.*—This degree can be taken in one of five branches, of which special mention may be made of Branch II (Mediæval and Modern History) and Branch III (Oriental History, with special reference to the history of India).

For Branch II it is considered essential that a student should have a good knowledge of Latin and a Modern European Language.

For Branch III a Classical Oriental Language and an Indian Vernacular Language may be taken.

(iv) *Medicine.*—(a) (*Internal*).—Applications from Internal Students to be excused examination in one or more subjects of the First Medical Examination and in Organic Chemistry at the Second Examination Part I may be considered by the Senate if the applicant has passed a *Final* examination for a degree in another University with the subject or subjects from which he seeks exemption. Internal Students in the Faculty of Medicine may also *apply* for exemption in respect of attendance at *courses of study* in the subjects of the First Examination for Medical Degrees (Inorganic Chemistry, Physics including Mechanics, and General Biology), the Second Examination for Medical Degrees, Part I (Organic Chemistry), and the Second Examination for Medical Degrees, Part II. (Anatomy, Physiology, and Pharmacology), if they have attended corresponding courses at other recognised Universities. Such exemption when granted is normally accompanied by some reduction in the prescribed intervals between examinations up to and including the Second Examination for Medical Degrees, Part II.

All applications for any exemption in medicine to Internal Students must give full information in regard to the previous courses attended and examinations passed. It is advisable that applications for exemption should be made through the authorities of a Medical School which has accepted the student for admission. Similar but not identical regulations to those given below for Registered Medical Practitioners as External Students apply to persons so qualified who wish to proceed as Internal Students.

(b) *External Students.*—Registered Medical Practitioners (*i.e.*, registered by the General Council of Medical Education and Registration of the United Kingdom) who shall have passed the First Examination for Medical Degrees and the Second Examination for Medical Degrees, Part I., may proceed to the Second Examination for Medical Degrees, Part II., and the Third Examination for Medical Degrees without observing the intervals prescribed by the Regulations, on producing certificates that they have gone through the required

course of training *at any time* previously; provided that the required course of study for the Third Examination must be shown to have covered at least three years; provided, also, that candidates entitled to the foregoing exemption whose matriculation, or exemption therefrom, dates from January in any year shall not be admissible to the Third Examination for Medical Degrees before May of the year next but one ensuing; and similarly, candidates whose matriculation, or exemption therefrom, dates from June or September in any year, shall not be admissible to the Third Examination for Medical Degrees before May of the third year ensuing.

No exemption is allowed to External Students from any part of any of the examinations in Medicine on the ground of their having passed examinations in other Universities

(v) *Veterinary Science*.—The Senate has power to permit, in special cases, modification of or exemption from the courses of study anterior to the First Examination in Veterinary Science, the Second Examination in Veterinary Science, Part I, and the Second Examination in Veterinary Science, Part II, provided that an equivalent course has been taken in the University or in a recognised Institution elsewhere.

(b) It has also power to permit, in special cases, exemption from the whole of the First Examination in Veterinary Science or the Second Examination in Veterinary Science, Part I, provided that an equivalent examination has been taken in this or some other University.

(N.B.—Exemption may in some cases be allowed to Internal students for the B Sc (Vet. Sc.) if the subject of the First Examination in respect of which they desire exemption is one in which they have passed at the Final Indian Examination.)

#### DEGREES AND FEES.

Unless it is otherwise so stated, a student entering on any course must have passed the Matriculation Examination of the University of London or have been exempted therefrom. For particulars of the Matriculation Examination (*see* pages 19–25).

Matriculation fee, £2 12s. 6d (There is an extra fee of £2 2s. for Special Oriental Language.)

Special University Entrance Examination, £5 5s.

In addition to Matriculating, every *External* student is required to register for any examination to which he is proceeding. The fees are as follows:—

For any Intermediate Examination, 10s.; Final Examination, £1; Higher Degree Examination, £1; Diploma Examination, £1 (except for graduates of the University of London, who pay no registration fee).

Late registration may be permitted by the Council for sufficient reason up to a date not later than one month before the last date of entry to the Examination, and double registration fee is then payable.

Internal Students pay no registration fee, except in the following cases:—

- (1) Students who have not matriculated in the University of London and are proceeding to an Academic Diploma, £3 3s
- (2) Graduates of other Universities who are exempted from the whole of the Intermediate Examination and are proceeding to a First Degree, £5 5s, including the fee for matriculation.
- (3) Graduates of other Universities proceeding to a Master's or Ph.D. Degree, £5 5s., including the fee for matriculation.



Courses.	Period of Study.	Examination Fees.	
		Intermediate	Final.
DEGREES (a).		£ s. d.	£ s. d.
Theology . . . . .	3 years -	6 6 0(b)	6 6 0(b)(c)
Arts . . . . .			
Science . . . . .			
Laws . . . . .			
Music . . . . .			
Pharmacy . . . . .			
Agriculture . . . . .			
Engineering . . . . .			
Economics . . . . .			
Commerce . . . . .			
Estate Management (d) . . . . .			
Horticulture . . . . .			
Architecture: Internal . . . . .	5 years -	6 6 0	12 12 0
External . . . . .	3 years -	6 6 0	11 11 0
Household and Social Science (e):	3 years -	{ 6 6 0 4 4 0 —	— — 4 4 0
First . . . . .			
Second . . . . .			
Final . . . . .			
MEDICAL AND DENTAL DEGREES.			
M.B., B.S.:	5½ years -	{ 6 6 0 3 3 0 9 9 0 —	— — — 12 12 0
1st Exam. . . . .			
2nd Exam., Part I. . . . .			
" Part II. . . . .			
Veterinary Science:	5 years -	{ 6 6 0 3 3 0 6 6 0 —	— — — 6 6 0
First . . . . .			
Second, Part I. . . . .			
" Part II. . . . .			
Dental Surgery:	5 years -	{ 6 6 0 6 6 0 2 2 0 —	— — — 12 12 0
1st Exam. . . . .			
2nd Exam. Part I. . . . .			
" Part II. . . . .			
3rd Exam. . . . .			

DIPLOMAS.	Period of Study.	Exam. Fees.	
		£ s. d.	
Anthropology (c) (f) - . . . . .	2 years -	5 5 0	
Archæology (c) (f) - . . . . .	2 years -		
Bacteriology (c) (g) - . . . . .	1 year -		
Biology (h) - . . . . .	1 year -		
Clinical Pathology (c) (r) - . . . . .	12 months -		
Comparative Philology (c) (f) - . . . . .	2 years -		
Fine Art (c) (j) - . . . . .	3 years -		
Dramatic Art (k) - . . . . .	2 years -		
Geography (l) - . . . . .	2 years -		
History of Art (c) - . . . . .	1 year -		
Humanities (r) - . . . . .	4 years -	3 0 0	
Journalism (c) (n) - . . . . .	2 years -		
Librarianship (c) (n) - . . . . .	2 years -		
Medical Radiology (c) - . . . . .	2 years -		
Military Studies (c) - . . . . .	1 year -	10 10 0	
Nursing (o) - . . . . .	2 years -		
	—	5 5 0	
		3 0 0	

DIPLOMAS— <i>cont.</i>	Period of Study.	Exam. Fee.		
		£	s.	d.
Physical Education, Theory and Practice of (p).	3 years -	5	5	0
Psychological Medicine (q)	— (q)	12	12	0
Psychology (c) (f)	2 years -	5	5	0
Public Administration (n)	2 years -	5	5	0
Public Health (r)	1 year -	10	10	0
Slavonic Studies (c) (s)	2 years -	5	5	0
Sociology and Social Administration (c)	2 years -	5	5	0
Teacher's (Pedagogy) (t)	1 year -	6	6	0
Theology (u)	2 years -	5	5	0
Town Planning and Civic Architecture (c) (u).	1 year -			
Town Planning and Civic Engineering (c) (u).	1 year -			
<b>HIGHER AND RESEARCH DEGREES (r).</b>				
LL.M.	2 years (w)	10	10	0
M.A., (c) D.Lit., M.Sc.	} At least 2 years.	10	10	0
LL.D., D.Mus., M.D., M.S.		21	0	0
D.Sc., Ph.D.		21	0	0(y)

## NOTES.

(a) In the *Faculty of Arts*, Honours can be obtained in the following Schools:—

1. Classics; 2. Mathematics; 3. Medieval and Modern Languages;
4. Oriental Languages; 5. Slavonic Studies; 6. Philosophy; 7. Psychology;
8. History ((I) Ancient and Medieval, (II) Medieval and Modern, (III) Oriental History, with special reference to India, (IV) Oriental History, with reference to History of the Near and Middle East, (V) History of the Far East, with special reference to China; 9. Geography; 10. Archaeology; 11. Latin;
12. Greek; 13. Sociology; 14. Anthropology.

External Students may obtain Honours in subjects 1 to 12 and also in Architecture.

In the *Faculty of Science*, Honours can be obtained in the B.Sc. (General) Examination or in the following schools for the B.Sc. (Special):—

1. Mathematics; 2. Astronomy; 3. Physics; 4. Chemistry; 5. Geology;
6. Botany; 7. Zoology; 8. Physiology; 9. Human Anatomy and Morphology;
10. Psychology; 11. Anthropology; 12. Statistics; 13. Geography.

External Students may obtain Honours in all these subjects except Statistics.

(For External Students there is an additional examination fee of £5 5s. in the subjects of Astronomy, Human Anatomy and Morphology, and Anthropology.)

Honours may also be obtained in the Final Examination for the Degree in the *Faculties of Medicine, Engineering, Economics and Commerce*. No Honours Degree is awarded in the subjects of *Agriculture, Horticulture, Household and Social Science and Veterinary Science*.

External Diplomas are open only to students who have matriculated at the University of London.

(b) £5 5s. extra for Oriental Language.

(c) £10 10s. for B.A. (Honours) in Archaeology (Internal), and £11 11s. for B.A. (Honours) in Archaeology (External).

(d) Can only be taken by External Students.

(e) Can only be taken by Internal Students.

(f) Students must be of post-graduate standing or of standing approved as equivalent thereto for the purpose.

(g) Open to graduates in Medicine, Science or Pharmacy of an approved University, or to Registered Medical Practitioners deemed qualified for the course by the University.

(h) Open to (i) students of Training Colleges who have pursued satisfactory courses in Biology during the first two years of training, or to (ii) students whose preliminary training is deemed adequate by the University.

- (g) Students must produce evidence of artistic proficiency.
- (k) Open to students who have passed the School Certificate or have produced evidence of general education satisfactory to the University, and have, after the age of not less than 17 years, attended a course extending over at least two years at a Training School or other Institution approved by the University for the purpose.
- (l) Open to students who have passed or been exempted from the matriculation and who produce evidence of special proficiency in Geography.
- (m) Subjects — History, Literature, Economics and Social Science; History of Art; Literary, Historical and Comparative Study of the Bible.
- (n) Open to matriculated students or (in the case of Academic Diplomas for Internal Students only) to students who produce evidence of having attained a satisfactory standard of education.
- (o) Open to Registered Nurses or Nurses eligible to sit for the prescribed examination for admission to the Register. Before admission to Part B candidates must have held one year's appointment at an approved hospital.
- (p) Open to students who have passed the School Certificate or have produced evidence of general education satisfactory to the University, and have, after the age of not less than 18 years, attended a course extending over at least three years at a Physical Training College or other Institution approved by the University for this purpose.
- (q) See page 242.
- (r) Open to medical practitioners holding a qualification registrable in the United Kingdom.

Part II of the D.P.H. examination cannot be taken until two years have elapsed from the attainment of the qualification, which must be registered before admission to Part II of the Examination. The only School of the University at which the prescribed courses for the D.P.H. can be taken at present is the London School of Hygiene and Tropical Medicine (see page 110).

- (s) Open to students who satisfy the Professor or Teacher concerned and the Board of Slavonic Studies.
- (t) Students must be in possession of a Degree of an approved University.
- (u) Open to students who possess the University of London School of Architecture Certificate in Town Planning or its equivalent.
- (v) Students, other than graduates of the University of London, must be in possession of a Degree of a recognised Indian University, and be registered as Internal Students. (See also page 70, "Higher Degrees.")
- (w) The duration of this course is one year for students who already hold the LL.B. degree of the University of London.
- (x) See pages 72 and 86 with reference to the M.A. in Education.
- (y) For the Ph.D. the fee is reduced to £10 10s. for candidates holding the Master's Degree of the University of London in the same Faculty.

#### HOSTELS AND BOARD AND LODGING.

For women students there is a hostel at College Hall, Malet Street, W.C. 1. Fees £85 15s. to £122 17s. per session of 33 weeks.

Hostels are maintained by many of the Colleges, and information concerning them is given under the head of the College concerned.

A Lodgings Bureau has been established by the Senate for the purpose of compiling a register of lodgings suitable for students. Enquiries should be addressed to the Lodgings Officer at the University Union, 42, Torrington Square, London, W.C. 1.

For students not residing in a hostel, the cost of board and lodging in London may be estimated at approximately £2 5s. to £3 3s. per week.

The Secretary or Registrar of the College should also be consulted, as usually a list of approved and registered lodgings is kept.

**GENERAL NOTE.**—The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Academic Registrar or External Registrar, University of London, South Kensington, London, S.W. 7.

# University of London.

## Bedford College for Women.

Unless it is otherwise stated all the degrees and diplomas, for which courses are provided, are awarded by the University of London. For conditions of eligibility for a course, examination fees, &c., see "University of London," pages 70-78.

For details of the Matriculation Examination of the University of London, see pages 19-25.

Registration Fee, £1 1s.

Course.	Period of Study	Tuition Fee.		
		£	s	d.
B.A. Intermediate - - -	1 year -	44	2	0 per session.
B.A. Final (General) - - -	2 years -	39	18	0 " "
" (Honours) (a) - - -	3 years (b) -	39	18	0 " "
B.Sc. Intermediate and First M.B.	1 year -	55	13	0 " "
B.Sc. Final (General) - - -	2 years -	55	13	0 " "
" (Special) (c) - - -	3 years (b) -	55	13	0 " "
Course in Social Work (d) - -	2 years -	27	6	0 " "
Journalism Diploma - - -	2 years -	29	8	0 (full course).
<b>HIGHER AND RESEARCH DEGREES</b>				
M.A. - - - - -	—	23	2	0 (for two sessions).
Ph.D. or M.Sc. - - - - -	—	22	1	0 per session.

### NOTES.

(a) Courses are provided for the following Honours Schools —Classics, Latin, Greek, Medieval and Modern Languages (Dutch, English, French, German, Italian), Geography, History, Mathematics, Philosophy

(b) The . . . . . for these degrees should normally obtain exemption therefrom. Intermediate Examination or

(c) Courses are provided for the B.Sc. (Special) in Botany, Chemistry, Geography, Geology, Mathematics, Physics, Physiology, Psychology, Zoology.

(d) A certificate is awarded by the College on the results of the examination at the conclusion of the course. Graduates and others with special qualifications can, on the recommendation of the Director of the Course, take a shortened course of one year.

### STUDENTS' SOCIETIES.

The Bedford College Union Society (subscription 16s. per session) covers all social and other indoor activities. Membership is voluntary, but nearly all the students join.

The Athletic Union (subscription 25s. per session) covers all games, &c.

### HOSTELS.

Accommodation for about 220 students is provided in the College Buildings and in the College Houses, Bedford College House and Notcutt House.

In the Residence the fees are 99 guineas per session of 30 weeks.

In the College Houses the fees are 78 or 81 guineas per session of 30 weeks.

GENERAL NOTE.—The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Principal of Bedford College, Regent's Park, N.W. 1.

# University of London.

## Birkbeck College.

Unless it is otherwise stated, all the degrees and diplomas, for which courses are provided, are awarded by the University of London. For conditions of eligibility for a course, examination fees, &c., see "University of London," pages 70-78.

For details of the Matriculation Examination of the University of London, see pages 19-25.

All the courses mentioned below are taken in the evenings and the College is not as a rule prepared to accept students unless they have reasonable grounds for not attending a full-time course at one of the other Schools of the University.

Course.	Period of Study.	Sessional Tuition Fee.		
		£	s.	d.
B.A. Intermediate and Final (General)	3 years -	10	0	0
B.A. Final Honours (a) -	3 years -	10	0	0
B.Sc. Intermediate and Final (General).	3 years -	12	0	0
B.Sc. Final (Special) (b) -	3 years -	12	0	0
1st M.B., B.S. -	1 year -	12	0	0
LL.B. Intermediate (c) -	1 year -	10	0	0
LL.B. Final (Pass) (c) -	2 years -	10	0	0
Academic Diploma in Geography -	5 terms -	5	0	0
University Certificate in German -	—	5	0	0
		Sessional Registration Fee.		
		Life Members of College.		
		All other Students.		
Post-graduate Research Courses for Higher Degrees—		£	s.	d.
Evening—		3	3	0
Arts, Mathematics and Geography.		4	4	0
Science -		5	5	0
Full-time—		10	0	0
Arts and Science -		10	0	0

### NOTES.

- Honours School of Classics, English, French, German, History, Geography and Mathematics.
- Honours School of Chemistry, Physics, Botany, Geology, Zoology, Mathematics, Geography.
- For the External Degree only.

### STUDENTS' SOCIETIES.

The Students' Union is the principal of these. There are also Athletic Clubs and other Societies. All students paying sessional fees as above are members of all these without further payment. The Athletic Ground of 18 acres is at Greenford, Middlesex.

### HOSTELS.

There are no hostels in connection with Birkbeck College.

GENERAL NOTE.—The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Secretary, Birkbeck College (University of London), Fetter Lane. E.O. 4.

## University of London.

### The College of the Pharmaceutical Society of Great Britain.

This College provides courses for the Final Examination for the Degree of Bachelor of Pharmacy (B. Pharm.) of the University of London and also for the Qualifying Examinations and post-qualification Diplomas of the Pharmaceutical Society.

For conditions of eligibility for the Degree course, examination fees, &c., see "University of London," pages 70-78, and for details of the Matriculation Examination see pages 19-25. For information regarding the examinations of the Pharmaceutical Society, see page 388.

Courses.	Period of Study.	Fees.
		£ s.
B. Pharm. (a) (c) - - - - -	2 years -	49 3 per annum.
Chemist and Druggist Qualifying Examination. (b) (d)	1 year -	
Pharmaceutical Chemist Qualifying Examination. (b) (c)	2 years -	
Diploma in Biochemical Analysis c) -	6 months -	10 10

Special facilities are furnished for graduates in Pharmacy of the recognised Universities desiring to proceed to higher degrees.

#### NOTES.

- (a) A student is only admitted to this course after he has been registered as a matriculated student of the University of London and passed the Intermediate Examination in Pharmacy or Science in the prescribed subjects in accordance with the regulations of the University. Instruction for the Intermediate Examination is not provided at the College.
- (b) A student is only admitted to this course after he has been registered as an "Apprentice or Student" (for details see page 388) and has passed the Society's Preliminary Scientific Examination, or an examination exempting therefrom (see page 388). Instruction for the Preliminary Scientific Examination is not provided at the College.
- (c) The courses for the Bachelor of Pharmacy Degree and the Pharmaceutical Chemist Qualifying Examination are concurrent and may be taken together.
- (d) The first year of the two-year course for the Bachelor of Pharmacy Degree or the Pharmaceutical Chemist Qualifying Examination course covers this course.
- (e) This course occupies two evenings a week and leads to the Diploma of the Pharmaceutical Society (see page 388). Members of the Pharmaceutical Society of Great Britain only are eligible to enter for the examination for this Diploma.

The inclusive annual fee covers student-associateship of the Pharmaceutical Society of Great Britain, membership of the Students' Association of the College and the fee to the University for membership of the University Union. There are no hostels in connection with this College.

**GENERAL NOTE.**—*The above general particulars should be verified and fuller information obtained either through the University Bureau or Local Advisory Committee, India, or the High Commissioner for India (Education Department, London), or direct from the Dean, the College of the Pharmaceutical Society of Great Britain, 17, Bloomsbury Square, London, W.C.1.*

## University of London. Goldsmiths' College.

### TEACHERS' TRAINING DEPARTMENT.

The courses available are as follows:—

(a) The course for the Teachers' Diploma of the University of London (Internal). This course runs from the middle of September until July and as a rule it is possible to admit only one or two students from India each year. Indian students must be graduates of an approved University and must be recommended by persons occupying a recognised educational position as having the teaching experience and the command of the English language necessary to enable them to profit by the course. No candidate will be finally accepted for admission until he has satisfied the College Authorities at a personal interview of his fitness to profit by the course.

Tuition fee	-	-	-	-	£48
Mid-day dinner	-	-	-	-	7
University Registration Fee	-	-	-	-	£3 3s.

(b) A special course may be arranged to suit individual needs of students who intend to take up teaching in India, but who are not qualified for or who do not desire to take the course for the University Teachers' Diploma. Such a course would normally include Principles, Methods and Practice of Teaching, Hygiene, Physical Training and one or more of the following subjects:—English, History, Geography, Drawing, Handwork, Music. The course does not lead to any certificate nor does it confer any recognised teaching qualification.

The tuition fee for a full-time course for the session of three terms extending from September to July is £48, but shorter courses of one or two terms may be arranged at proportionately reduced fees.

### RESIDENCE.

Indian students are, as a rule, required to live in approved lodgings in the neighbourhood of the College.

### SCHOOL OF ART.

The College also includes a School of Art (Day and Evening), for which the fees for all students who live in London are as follows:—

*Day.*—From £5 for one day's instruction per week during term from September to June to £15 for five days' instruction per week during term from September to June.

*Evening.*—10s. for one evening's instruction per week during term from September to June; £1 for more than one evening's instruction per week during term from September to June.

The curriculum of the School is arranged to give thorough tuition principally in Fine and Commercial Art and is adapted to the individual needs of students intending to follow Art or the Teaching of Art as a profession, as well as to those of more general students.

### EVENING DEPARTMENT OF ADULT EDUCATION.

It is also possible for Indian students living in London to attend courses or classes in the Evening (Literary) Department of the College. Non-vocational courses, which are purely cultural in character and do not lead to any degree or certificate, are available in a number of subjects, particulars of which are given in the Prospectus of the Department. The enrolment fee for any number of classes is £1 per session.

**GENERAL NOTE.**—The above general particulars should be verified in all cases, and fuller information can be obtained either through the University Bureau or Local Advisory Committee in India and the High Commissioner for India (Education Department), London, or direct from the Warden, Goldsmiths' College, New Cross, London, S.E. 14.

## London.

### Imperial College of Science and Technology.

(INCLUDES THE ROYAL COLLEGE OF SCIENCE, THE ROYAL SCHOOL OF MINES, AND THE CITY AND GUILDS COLLEGE.)

The courses referred to under the headings of the Royal College of Science, Royal School of Mines, and City and Guilds College are drawn up in accordance with requirements for qualification in the subjects concerned and lead up to a Diploma of the College.

For the purpose of degrees of the University of London, the Imperial College is recognised as a "School" of the University, and students admitted to the College who have passed or have been exempted from London Matriculation may register as Internal Students of the University and proceed to degrees as such.

For an Associateship Course, students must have passed the College Entrance Examination or have passed an accepted equivalent examination. Post-graduate students are admitted if their qualifications are considered suitable by the College authorities and if there is accommodation available.

The courses and examinations for the Diploma of Associateship are accepted for the B.Sc. (Special and Eng.) Degrees of the University of London, provided candidates matriculate at the University before entry, and comply with the regulations for the Degree. The work for the Higher Diploma of the College, viz., Membership of the Imperial College of Science and Technology, must be of post-associateship or post-graduate character. Before entry to a course of study for the Higher Diploma students must satisfy the College authorities that they have an Associateship of the College or a recognised equivalent.

Overseas students are advised to make application before coming to London, and, if possible, in the session before that in which they desire to begin work. The session begins early in October. Applications should be received not later than 1st May. Candidates whose applications are acceded to may then be informed of the decision in good time.

This Regulation covers applications from postgraduate students (both from those desiring to take advanced study and from those desiring to take research) for admission to (a) the Royal College of Science; (b) the Royal School of Mines; and also (c) the City and Guilds College.

For details of the Matriculation Examination of the University of London, see pages 19-25.

Course.	Period of Study.	Tuition Fee.
A.R.S.M. (Royal School of Mines) - -	4 years -	£62 10s. per annum (and £2 application Fee). In some cases the postgraduate fee is £22 10s.
A.C.G.I. (City and Guilds Engineering College).	3 years -	
A.R.C.S. (Royal College of Science) -	3 or 4 years -	
Postgraduate Courses: D.I.C. (at any of the Institutions) -	1 year or more	

*Research Studies.*—Fees are £22 10s. per session for the Royal College of Science and the Royal School of Mines, and an additional fee may be charged for exceptionally expensive chemicals or apparatus. *Occasional students* taking portions of a regular course pay proportionate rates.

The Research fee at the City and Guilds College is £62 10s. per annum.



## COURSES AVAILABLE.

*Royal School of Mines.*—Mining, Mining Geology, Metallurgy, and Oil Technology.

*City and Guilds College.*—Engineering:—Civil and Surveying Electrical, Mechanical and Motive Power (including Railway Engineering and Mechanical Transport), Aeronautics.

*Royal College of Science.*—Biology (Entomology); Bio-Chemistry Botany; Chemical Technology (including Fuel Technology, Chemical Engineering and Electro-Chemistry); Chemistry; Geology; Mathematics (Pure); Mathematics (Applied); Organic Chemistry; Physical Chemistry; Physics (including Astro-Physics, Geo-Physics, Meteorology and Technical Optics); Plant Physiology and Pathology; Zoology.

Postgraduate and research facilities are available in all Departments of the College.

## EXEMPTIONS.

The College authorities are prepared to consider applications for exemption from the Entrance Examination and part or the whole of the first year or first and second year courses of study on the terms named in the prospectus. Candidates for an Associateship must attend for a minimum period of two years.

## QUALIFICATIONS FOR ADMISSION.

Candidates for admission to Associateship courses are required to take an entrance examination conducted in September annually, or to obtain exemption therefrom in accordance with the terms set out in the prospectus.

The examination for admission to *First Year courses* will include the following subjects:—1. Mathematics and Mechanics (A); 2. Chemistry (A); 3. Physics (A); 4. English; 5. French or German. A candidate submitting satisfactory evidence of knowledge of any other approved foreign language may apply for exemption from the French or German examination. Application for exemption must be made not later than the first Monday in July.

Candidates must satisfy the examiners in each of these subjects, but weakness in one may be compensated for by excellence in another.

Successful candidates for the Royal College of Science and the Royal School of Mines will be required to take, immediately after admission to the College, an examination in Mathematics and Mechanics for the determination of the classes in which they will be placed. Candidates may, however, substitute Mathematics and Mechanics (B) for Mathematics and Mechanics (A) at the Entrance Examination, in which case, if successful, they will be exempted from the classifying examination.

All candidates for the City and Guilds College must take the papers in Mathematics and Mechanics (A) at the Entrance Examination for classification purposes.

A certificate or other document showing that a student has passed in one of the Universities an examination more advanced than the examinations referred to, or has passed an equivalent or higher examination in any other University (within the British Empire), will exempt the student from the entrance examination of the Royal College of Science or the Royal School of Mines, provided there is evidence in the certificate or document that the student has attained, in the requisite subjects, a standard at least equal to that required in the entrance examination.

Applicants holding Engineering degrees and Bachelor of Science degrees of Indian Universities recognised for this purpose by the College\* may be admitted for the first-year Engineering course without further examination, on the condition that if the applicant shows, after coming to the College, that he is not qualified in certain subjects of the Entrance Examination he must take those subjects at the end of the first year.

Students who matriculate at London University may proceed to the B.Sc. Degree on the course and examinations for the Associateship, provided that the University's Regulations are satisfied.

Candidates for admission to *Second Year courses* must qualify in the same subjects as candidates for admission to First Year courses, with the addition of Engineering Drawing for candidates for the City and Guilds College. The English and Foreign Language papers will be the same, but a higher standard will be required in the other subjects, as indicated by the following syllabuses for Mathematics and Mechanics (B), Chemistry (B), Physics (B).

It should be recollected that graduates who desire to secure exemption from the University of London from the first year of the degree course and the Intermediate Examination or portion thereof (see page 73) must, under the regulations submit their application *through the College*. They would normally be required to take, in whole or in part, the Intermediate Science Examination in Engineering (which is the same as the College Entrance Examination for the second year) at the College in the September immediately preceding admission.

Admission to *post-Associateship* or *Research courses* for the higher Diploma (D.I.C.) or for higher degrees is determined specially in each case after consideration of the candidate's qualifications.

All candidates are required to complete the College Application Form and to return it with the application fee of £2, a medical certificate of fitness to live in England, and copies of testimonials. These should be sent so as to reach the College by 1st May. A prospectus can be obtained from The Registrar, Imperial College, South Kensington, S.W. 7.

GENERAL NOTE.—*The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Registrar, Imperial College of Science and Technology, South Kensington, London, S.W. 7.*

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\* The Universities recognised are Agra, Aligarh, Allahabad, Andhra, Annamalai, Benares, Bombay, Calcutta, Dacca, Delhi, Lucknow, Madras, Mysore, Nagpur, Patna, Punjab and Rangoon.

# University of London.

## Institute of Education.

The courses available are as follows:—

(1) The course for the Teacher's Diploma of the University of London (Internal). The course runs from the second week in September until the first week in July. Indian students must possess a degree in honours of an approved University and must be recommended, by persons occupying a recognised educational position, as having the teaching experience and the command of the English language necessary to enable them to profit by the course. Candidates should ascertain that they will be admitted before they leave India. It should be understood that the Institute cannot guarantee practice in secondary schools, though there will be no difficulty in arranging suitable practice for qualified students in other types of schools.

Fee for Course: £45. University Registration fee: £3. 3s. Union and Library fee: £2 10s. Fee for Examination: £6 6s.

(2) The course for the M.A. degree of the University of London in the subject of Education. Students from India cannot be admitted to a course for a higher degree unless they have qualifications acceptable by the University as equivalent to the course of training given in the University of London and a pass in the examination for the Teachers' Diploma (see page 72). The Licentiate in Teaching of Indian Universities is not accepted for this purpose. Students who do not hold the London Teachers' Diploma (or an equivalent qualification) cannot be registered for the M.A. course. They may, however, be registered for the M.A. course at the end of the year of preparation for the Teachers' Diploma if their work during that year has indicated that they are likely after further study to reach the high standard required for the degree of M.A. Registration, if granted, is retrospective, i.e. the attendance given and work done during the year of preparation for the Diploma will count as one of the two years required for the M.A. degree.

The standard of the examination is high, and only students of unusual proficiency or ability can expect to reach it in the minimum time. The University Regulations should be consulted for information about academic qualifications, teaching experience, &c. (see page 72).

Fee for Course: £14 14s. (one year); £22 1s. (two years). Registration fee: £1 1s. Fee for Examination: £10 10s.

(3) The course for the Ph.D. degree of the University of London in Education. The minimum length of the course is two years, commencing in October. Applications for registration from overseas students must be received by 1st May at latest, and should be sent as early as possible. The application should give full particulars of the candidate's education and educational experience, and an indication, as precise as possible, of the research he proposes to undertake; it should also include copies of testimonials and the names of persons able to furnish evidence of his fitness for admission to the course. Candidates for admission to the Ph.D. course are required to satisfy the same conditions with regard to professional training and experience as

candidates for the M.A. degree. The candidate should not leave India until he has been informed that his application to be registered has been accepted (*see* page 72).

Fee for Course: £44 2s. Registration fee: £1 1s. Fee for Examination: £21.

#### HOSTELS.

There are no hostels in connection with this Institute.

#### ADMISSIONS.

Applications from Indian students for admission to the Institute should be received not later than the 1st May and should be accompanied by certificates as to their character, educational qualifications, &c. The College at its discretion may require such evidence to be authenticated by reference to the Education Department of the High Commissioner unless the application has been forwarded in the first place through that Department and one of the University Information Bureaux or Local Advisory Committees.

*GENERAL NOTE.—The above general particulars should be verified in each case and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India and the High Commissioner for India (Education Department), London, or direct from the Director, University of London, Institute of Education, Southampton Row, London, W.C. 1.*

# University of London.

## King's College.

Unless it is otherwise stated all the degrees and diplomas, for which courses are provided, are awarded by the University of London. For conditions of eligibility for a course, examination fees, &c., see University of London, pages 70-78.

Students will only be admitted to the College after having passed the London Matriculation or obtained exemption therefrom. Their applications should be received by the College before 1st June of each year.

For details of the Matriculation Examination of the University of London, see pages 19-25.

A Registration Fee of £1 ls. must be paid by each full-time student upon acceptance by the Dean of the Faculty. This Fee is non-returnable, and in the event of non-entry it is forfeited. In addition a further charge of £1 ls. is made to each Overseas student upon acceptance, which is deducted from the general Tuition Fees upon entry, but in the event of non-entry it is forfeited.

Course.	Period of Study.	Tuition Fee. (a)	
		Day.	Evening.
DEGREES.			
B.A. (b)	3 years	£ s. d. 31 10 0 1st year - 35 14 0 2nd & 3rd years.	£ s. d. 10 0 0 a year. —
B.A. (Pass or Hons. with Science subjects).	3 years	34 13 0 1st year - 38 17 0 2nd & 3rd years.	—
„ (Hons. in Psychology)	2 years (c)	35 14 0 a year -	—
B.Sc. (b)	3 years	36 15 0 (d) 1st year 52 10 0 (d) 2nd & 3rd years.	—
„ (in Mathematics)	2 years (c)	35 14 0 a year -	—
„ (in Psychology)	2 years (c)	35 14 0 a year -	—
„ (Hons. in all other Science subjects).	2 years (c)	52 10 0 a year (d)	—
„ (Engineering)	3 years	50 8 0 1st year (e) 63 0 0 2nd & 3rd years (e).	—
M.B., B.S. (1st Exam.)	3 years	36 15 0 a year (f)	—
„ (2nd Exam.)		42 0 0 a year (f)	—
B.D.S. (1st Exam.)	3 years	36 15 0 a year (f)	—
„ (2nd Exam.)		52 10 0 a year (f)	—
LL.B.	3 years	20 8 0 a year -	22 1 0
DIPLOMAS.			
F.R.C.S. (Primary) (g) (h)	6 weeks	12 12 0	—
L.D.S. (Chemistry and Physics and Biology) (g).	—	36 15 0 a year (f)	—
„ (Anatomy and Physiology, Dental Mechanics and Metallurgy).	—	52 10 0 a year -	—

Course.	Period of Study.	Tuition Fee. (a)	
		Day.	Evening.
DIPLOMAS—cont.			
Diploma in Psychology	2 years	£ s. d. 29 8 0 a year	£ s. d. —
" Engineering (j)	3 years	50 8 0 1st year (e) 63 0 0 2nd & 3rd years (e).	—
" Journalism (k)	2 years	29 8 0 a year	—
" English	1 year (or 4 years' evening study).	29 8 0 a year	4 10 0 (1st 3 years). 6 0 0 (4th year).
Certificate in Engineering (j)	3 years	50 8 0 1st year (e) 63 0 0 2nd & 3rd years (e).	—
Secondary Teacher's Training Course for Teacher's Diploma. (l).	1 year	42 0 0	—

## HIGHER AND RESEARCH DEGREES. (a)

M.A.	£ s. d. 22 1 0	} Two-Year Composition Fees (m).
M.Sc. (Mathematics)	22 1 0	
M.Sc. (in other subjects)	29 8 0	
Ph.D.	44 2 0	
LL.M.	37 16 0	} per annum.
M.Sc. (Engineering)	21 0 0	
D.Lit., LL.D., D.Sc. and D.Sc. (Engineering).	£ s. d. 1 11 6	} Fees per annum, and such other fees as may be fixed in each case.
Research (Registration)	1 11 6	

## NOTES.

- (a) These fees may be paid in equal terminal instalments on payment of an additional £1 1s. in the first term.
- (b) Courses are provided for all the Honours Schools except in Oriental and Slavonic Studies.
- (c) The two years after the Intermediate B.A. or B.Sc.
- (d) For Honours Chemistry course, students pay a deposit of £5 5s. per annum in the second and third years. This includes the apparatus hiring fee of 10s. 6d. per annum. Part of this money may be returnable. For the use of ordinary materials and apparatus students pay a fee of £1 1s. per annum in respect of each laboratory attended in the First Year course, and an inclusive fee of £3 3s. per annum for each year of a Final General Honours course. The "materials" fees for Honours courses (other than Mathematics) are £3 3s. per annum for Chemistry, and £2 2s. per annum for any other subject, together with a fee for the subsidiary subject of £2 2s. per annum in the case of Chemistry and £1 1s. per annum for any other subject. All Intermediate students taking Chemistry pay a deposit of £2 2s. for locker and material supplied. The fee is returnable at the end of the Intermediate course, less any charge for replacements.
- (e) In each year of the Engineering course, students pay £3 3s. for materials.
- (f) Extra fees: Materials fee: 1st examination, £4 4s.; 2nd examination, £3 3s. (first year), £3 3s. (second year).
- (g) This qualification is awarded by the Royal College of Surgeons (see page 219).
- (h) Commencing in February and September.

- (j) Candidates for the course must pass the College entrance examination or the London Matriculation or its equivalent. The Diploma or Certificate is awarded by the College. Candidates from India are unlikely to be accepted for the Diploma Course, as the vacancies in the faculty are generally filled by students for the Degree.
- (k) Admission to the College for this course is only open to students who can produce evidence of some direct connection with the journalistic profession.
- (l) Indian students must possess a degree in honours of an approved University and must be recommended by persons occupying a recognised educational position as having the teaching experience and the command of the English language necessary to enable them to profit by the course. It should be understood that the College cannot guarantee practice in secondary schools, though there will be no difficulty in arranging suitable practice for qualified students in other types of schools.
- (m) All these fees are reduced for registered Honours Graduates of the College.

### STUDENTS' SOCIETIES.

The Fees cover the subscription to the Library, Athletic Ground, Union Society and all games subscriptions.

### HOSTELS.

*For Men.*—The Platanos, Champion Hill, S.E. 5. Fees from £66 to £80 per session of 30 weeks.

*For Women.*—54, 56 and 58, Queensborough Terrace, Bayswater, W. 2. Fees (for 30 weeks): £70 to £65, single room; £60, sharing room; £55, cubicle.

### ADMISSION.

Applications from Indian students for admission to the College should be received not later than 1st June, and should be accompanied by certificates as to their character, educational qualifications, &c. The College at its discretion may require such evidence to be authenticated by reference to the Education Department of the High Commissioner for India, unless an application has been forwarded in the first place through that department, and one of the University Bureaux or Local Advisory Committees.

*GENERAL NOTE.*—The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Secretary, King's College, Strand, W.C. 2.

## University of London.

### King's College of Household and Social Science.

Unless it is otherwise stated, all the degrees and diplomas, for which courses are provided, are awarded by the University of London. For conditions of eligibility for a course, examination fees, &c, see "University of London," pages 70-78.

For details of the Matriculation Examination of the University of London, see pages 19-25.

This College is for women only.

Course.	Period of Study.	Tuition Fees
		£ s. d.
B Sc (Household and Social Science) (a) -	3 years -	47 5 0 a session.
B Sc Honours in Physiology for students who have obtained B.Sc. (Household and Social Science).	1 year -	47 5 0 a session
College Diploma in Dietetics for postgraduate Students in Chemistry and Physiology.	1 year -	30 0 0
College Diploma in Dietetics for Trained Nurses, Domestic Science Diplomées and postgraduate students in subjects other than Chemistry and Physiology.	2 years -	{ 42 0 0 1st session. 30 0 0 2nd session.
College Certificate in Institutional Administration (b)	2 years -	{ 46 4 0 1st session 42 0 0 2nd session.
Special Course in Household Management -	1 year -	46 4 0 a session
College Certificate for Sister Tutors (c) -	1 year -	36 15 0 a session

#### NOTES.

- (a) Preliminary requirement—London Matriculation or equivalent A fair standard of Mathematics is necessary.  
 (b) Preliminary requirement—School Certificate Examination (London, Oxford, Cambridge, or equivalent).  
 (c) Preliminary requirement—General Nursing Training.

#### COLLEGE SOCIETIES.

Students' Union Fee, £1 10s. per annum.

#### HOSTELS.

Queen Mary's Hostel (120 students), 75-93 guineas for session of 30 weeks. A charge of 7s. 6d. per day is made to students obtaining special leave to stay in hostel during vacation.

**GENERAL NOTE.**—The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Secretary, King's College of Household and Social Science, Campden Hill Road, W. 8.



# University of London.

## London School of Economics.

All the degrees and diplomas are awarded by the University of London; the Certificates are awarded by the School. For conditions of eligibility for a course leading to a degree or diploma, and for examination fees, &c., see "University of London," pages 70-78.

For details of the Matriculation Examination of the University of London, see pages 19-25

The School will only admit students who have obtained a degree in an Indian University or who have passed the London Matriculation. Application should be made before the 30th April for admission in the following October, since the number of students to be admitted is strictly limited.

Applicants accepted for Undergraduate Courses are required to pay an Entrance Registration Fee of £2 2s. This fee will be forfeited if the applicant withdraws after acceptance.

Course.	Period of Study.	Sessional Tuition Fees.	
		Day.	Evening.
B.A. (a) . . . . .	3 years	£ 31 10 0 to 35 14 0	£ 10 0 0 to 21 0 0
B.Sc. (Economics) . . . . .	3 years	27 6 0	17 10 0
B.Com. . . . .	3 years	27 6 0	17 10 0
LL.B. . . . .	3 years	29 8 0	22 1 0
Academic Diploma in Sociology and Social Administration.	2 years	27 6 0	—
Academic Diploma in Geography	2 years	29 8 0	21 0 0
Certificate in Social Science and Administration (b).	2 years	27 6 0	—
Academic Diploma in Psychology	2 years	29 8 0	—
Academic Diploma in Anthropology.	2 years	29 8 0	—
Academic Diploma in Public Administration.	2 years	29 8 0	15 15 0
Certificate in International Studies	2 years	36 15 0	—
Certificate for Social Workers in Mental Health (c).	1 year	31 10 0	—
Studies of Contemporary Britain	Summer Term.	6 6 0	—

Higher and Research Degrees.	Period of Study.	Tuition Fees. (d)
Ph.D. . . . .	{ 2 years 4 years	£ 22 1 0 per session.
M.Sc. (Economics) . . . . .	—	18 18 0 "
D.Sc. . . . .	—	22 1 0 "
M.A. . . . .	—	22 1 0 "
LL.D. . . . .	—	22 1 0 "
D.Lit. . . . .	—	22 1 0 "
LL.M. . . . .	—	18 18 0 "
M.Com. . . . .	—	18 18 0 "

## NOTES.

- (a) Only Honours Courses in Geography, or History, or Anthropology, or Sociology; or the pass degree in Geography.
- (b) Students for the certificate must attend the Social Science Department of the School for one or two sessions. They should possess a good general education, and, as the greater part of the instruction is post-graduate, they should be qualified to rank as graduates by education and knowledge.
- (c) Generally speaking, students are accepted for this Certificate only if they (i) are over 25 years of age; (ii) have already obtained a Social Science Certificate of a University; (iii) have had some practical experience of social work.
- (d) These fees are reduced for Honours Graduates of the School.

## STUDENTS' SOCIETIES.

The Composition Fees above admit without further subscription to the Students' Union, which organises all social and athletic activities.

## HOSTELS.

There are no hostels in connection with the School.

GENERAL NOTE.—*The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India and the High Commissioner for India (Education Department), London, or direct from the Secretary to the London School of Economics, Houghton Street, Aldwych, W.C. 2.*

## University of London.

### Maria Grey Training College for Women Teachers.

This College provides courses (a) for the Teachers' Diploma of the University of London, and (b) for the Teachers' Examination of the University of Cambridge. It also provides courses for the Higher Certificate Examination of the National Froebel Union (Junior Form and Kindergarten Work) and for the Diploma (which qualifies for training teachers) of the National Froebel Union (*see* pages 393-396). Students are expected to study for one of these courses, and before admission must satisfy the preliminary requirements laid down for the particular course desired. Experienced teachers are occasionally admitted for "refresher" courses without the obligation of preparing for an examination.

#### FEES.

*University Division and Division preparing for the National Froebel Union Diplomas*: £31 17s. 6d. yearly, including stationery and games, payable in instalments of £10 12s. 6d. at the beginning of each of the three terms. Gymnastic class, 12s. 6d. per term (optional). University Registration Fee, £3 3s.

*Kindergarten Division*: £33 15s. yearly, including gymnastics, stationery and games, payable in instalments of £11 5s. at the beginning of each of the three terms.

College Union fee: £1 per annum.

The London Teachers' Diploma Examination fee: £6 6s.

The Cambridge Teachers' Examination fee: £5 for students of this College.

The National Froebel Union's Trainers' Diploma Examination fee is £5 5s.; the fee for each of the three parts of the Teachers' Certificate of the National Froebel Union is £3 3s. for Candidates exempt from Part I, £3 13s. 6d. for each of the Parts II and III.

Special courses: £1 1s. for each subject.

#### HOSTELS.

The Winkworth, Sheffield and Johnston Halls of Residence provide accommodation for students of the College. Fees: £73 per annum.

GENERAL NOTE.—The above general particulars should be verified in each case, and fuller information can be obtained either through the *Principal* or the *Local Advisory Committee in India*, and the *High Commissioner for India* (Education Department), London, or direct from the Principal, the Maria Grey Training College, Salusbury Road, Brondesbury, N.W. 6.

# University of London.

## Queen Mary College.

Unless it is otherwise stated, all the degrees, for which courses are provided, are awarded by the University of London. For conditions of eligibility for a course, examination fees, &c., see "University of London," pages 70-78.

Students for admission to College must have passed the London Matriculation or Special University Entrance Examination or have been exempted therefrom by the University before they can be accepted at the College.

For details of the Matriculation and Special University Entrance Examinations of the University of London, see pages 19-25.

Courses.	Period of Study.	Composition Fee.*
B.A. (a) - - - - -	3 years -	£22 10s. per session.
B.Sc. (b) - - - - -	3 years -	£28 per session.
B.Sc. (Engineering) (c) - - - - -	3 years -	£28 per session.
1st M.B., B.S. - - - - -	1 year -	£30 per session.
Dental Studies (two subjects) - - - - -	—	£19 per session.
Higher and Research Degrees including Ph D., Arts and Non-Experimental Science Examination - - - - -	2 years -	£17 5s. per session.
Experimental Science Examination - - - - -	2 years -	£22 10s. per session.

\* The full annual fee must be paid in advance each session before a student can attend a course.

### NOTES.

- (a) Honours School in Classics, English, French, Geography, German, Spanish, History, Mathematics.
- (b) Honours School in Physics, Chemistry, Botany, Zoology, Geology, Geography, and Mathematics.
- (c) Civil, Mechanical, Electrical, Aeronautical.

### STUDENTS' SOCIETIES.

The Queen Mary College Union Society covers all the phases of students activities, social and athletic. The subscription is included in the Composition Fee.

**GENERAL NOTE.**—The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Registrar of Queen Mary College, Mile End Road, E. 1.

## University of London.

### Royal Holloway College for Women.

Unless it is otherwise stated, all the degrees and diplomas, for which courses are provided, are awarded by the University of London. For conditions of eligibility for a course, examination fees, &c., see "University of London," pages 70-78.

For details of the Matriculation Examination of the University of London, see pages 19-25.

B.A. or B.Sc. (a) in :—

				Tuition Fees.
Classics	-	-	-	Residents (including residence during the session) £144 (payable £48 a term in advance. Students must provide their own bedroom linen).
English	-	-	-	
French	-	-	-	
German	-	-	-	
History	-	-	-	
Mathematics	-	-	-	
Botany	-	-	-	
Chemistry	-	-	-	
Physics	-	-	-	

#### NOTE.

(a) Courses are provided for the Honours Schools in Latin, Greek, Mathematics, Medieval and Modern Languages (English, French, German), and Modern History. Courses are provided for the B.Sc. (Special) in Mathematics, Physics, Chemistry and Botany.

Courses in different branches of Music and Art are also provided.

Students are generally required to take the special College Entrance Examination, and preference for admission to the College is given to students who have passed or been exempted from the London Matriculation Examination. Application for the Entrance Examination must be made on the prescribed form, to be obtained from the College and returned before February, accompanied by a fee of £1 and certificates of good conduct and health. The examination takes place in March. Candidates from abroad who have passed or are exempted from London Matriculation may, with special permission, be admitted without further examination. If they wish to take an Arts degree, Latin must be one of their Matriculation subjects.

**GENERAL NOTE.**—The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Principal, the Royal Holloway College, Englefield Green, Surrey.

## University of London.

### School of Oriental Studies.

Unless it is otherwise stated, all the degrees and diplomas, for which courses are provided, are awarded by the University of London. For conditions of eligibility for a course, examination fees, &c., see "University of London," pages 70-78.

For details of the Matriculation Examination of the University of London, see pages 19-25.

This School provides recognised University courses for First and Postgraduate degrees in Arabic, Bengali, Chinese, Hindi, Oriental History, Old Iranian languages, Sanskrit, Pali, Prakrit, Japanese, Malay, Marathi, Persian, Turkish, Urdu, Phonetics, Comparative Philology in Indo-Aryan and Indonesian languages.

Courses to non-University students are provided in the above subjects and also in African languages: Hausa, Swahili, &c., Gujarati, Sinhalese, Tamil, Telegu, Burmese, Siamese, British Indian Law, Hindu and Muhammadan Law, Chinese Art and Archaeology. Such courses are either sessional or terminal.

As the result of examination the School awards a First and Second Year Certificate in each single language, and a Diploma may be awarded to students who have previously obtained the Second Year Certificate, or have been specially admitted to the Examination by the Governing Body (Fee, £5 5s.).

Course.	Period of Study.	Tuition Fees.
B.A. (Pass or Hons.)	3 sessions	£ s. d. 94 13 0 per session.
M.A. - - - - -	2 sessions	21 0 0 per session (a).
Ph.D. - - - - -	2 sessions	21 0 0 per session (a) (b)
Research Fee - - -	--	5 5 0 per session.
Indian Civil Service Probationer Course.	--	42 0 0 per session.
Regular Courses (from 1 hour to 7 hours a week).	--	From £10 10s. per session.
Special Individual Course - -	--	12s. 6d. per hour.

#### NOTES.

(a) These fees are reduced for Honours Graduates of the School.

(b) In the case of *part-time* students for whom, by reason of their being engaged in other work, a longer course than two years is prescribed by the University, the total amount payable is £42.

### UNION SOCIETY.

No separate charge for full membership of the Union will be made to students paying fees for courses other than Special and Vacation courses.

### HOSTELS.

There are at present no hostels in connection with this School.

### ADMISSION.

Applications from Indian students for admission to the school should normally be made through the Education Department of the High Commissioner for India. All applications should be received not later than 1st June, and should be accompanied by certificates as to character, educational qualifications, health, and financial means necessary for residence in England. The School, at its discretion, may require certificates from students who apply direct for admission to be authenticated by reference to the Education Department of the High Commissioner for India.

GENERAL NOTE.—*The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Secretary to the School of Oriental Studies, Finsbury Circus, E.C. 2.*

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### South-Eastern Agricultural College, Wye.

This College provides a full course for the Internal B.Sc. degree in Agriculture. For fuller particulars see page 326.

# University of London.

## University College.

Unless it is otherwise stated all the degrees and diplomas, for which courses are provided, are awarded by the University of London. For conditions of eligibility for a course, examination fees, &c., see "University of London," pages 70-78.

For details of the Matriculation Examination of the University of London, see pages 19-25.

Applications for admission must be received by the College not later than 31st May each year.

Applicants accepted for undergraduate courses are required to pay a registration fee of £2 2s., and those accepted for postgraduate courses an additional registration fee of £5 5s., making £7 7s. in all. These fees will be deducted from the sessional fees payable by the student, but will otherwise be forfeited. The College requires that the full fees for the session be paid at the opening of the session in October.

Course.	Period of Study.	Tuition Fee.*
<b>DEGREES.</b>		
Arts (without Science subjects) (a) -	3 years -	102 18 0
" (with Science subject) (a) -	3 years -	110 5 0
" (Architecture) (a) (b) -	5 years -	176 8 0
		{ 63 0 0 (3 sessions composition). year fees).
B.Sc. (a) - - - -	3 years -	147 0 0 (3 sessions composition).
	3 years -	141 15 0 (without Chemistry and Physiology or Anatomy).
" (Maths. Hons.) - - -	3 years -	108 3 0 (3 sessions composition).
		or £113 8s. if Chemistry be taken for Intermediate.
" (Economics) - - -	3 years -	27 6 0 (per session).
" (Engineering: Civil, Mech., Elect., Municipal). -	3 years -	176 8 0 (3 sessions composition).
Intermediate Science for Medicine -	1 year -	39 18 0 (per session).
1st M.B., B.S. - - -	1 year -	39 18 0 (c)
2nd M.B., B.S. - - -	1 yr. & 2 terms -	84 0 0 (d) (composition).
	3 years -	22 1 0 (per session)—evening course.
LL.B. - - - - -	{ 3 years -	29 8 0 (per session)—day course.
<b>DIPLOMAS.</b>		
Diploma in Engineering (Civil, Mech., Elect., Municipal). -	3 years -	176 8 0 (3 sessions composition).
University Diploma of Fine Art (e) -	3 years -	29 8 0 (per session).
Certificate in Architecture (b) (f) -	3 years -	176 8 0 { 3 sessions composition).
Diploma in Architecture (b) (g) -	5 years -	{ 176 8 0 { 3 sessions composition). 63 0 0 (Fees 4th and 5th years).
Certificate in Decoration (b) (e) -	3 years -	176 8 0 (3 sessions composition).
Academic Diploma in Geography -	—	21 0 0 (2 sessions evening or 1 session day composition).

\* The fees are at present under consideration, but it is not anticipated that there will be any substantial increase on the composition fees shown.



Course.	Period of Study.	Tuition Fee.
<b>DIPLOMAS—cont.</b>		
University Diploma in Librarianship*	2 years	£ 21 0 0 (per session).
Diploma for Journalism	2 sessions	29 8 0 (per session).
Academic Diploma in Psychology	2 sessions	29 8 0 (first session).
		21 0 0 (second session).
Diploma in History	1 session	29 8 0 (per session).
Certificate in Phonetics (h)	—	From £6 6s. according to branch of work.
Academic Diploma in Town Planning and Civic Architecture. (b)	2 sessions	Full Time (Day Course) — 52 10 0 (per session).
Academic Diploma in Town Planning and Civic Engineering. (b)	2 sessions	Full Time (Evening Course):—
Certificate in Town Planning (b) (j)	1 year	15 15 0 (two terms).
Diploma in Chemical Engineering (k)	2 sessions	31 10 0 (per session).
		1 11 6 (workshop fee).
Higher Civil Service Course (l)	2 sessions	36 16 0 (per session).
<b>HIGHER AND RESEARCH DEGREES.</b>		
Ph.D.	2 years	44 2 0 (m)
M.A.	2 years	22 1 0 (m)
M.Sc.	2 years	29 8 0 (m)
M.Sc. (Maths.)	2 years	22 1 0 (m)
M.Sc. Engineering (Civil, Mech., Elect., Municipal).	2 years	34 13 0
LL.M.	2 years	18 18 0 (per session).
LL.D.	2 years	14 14 0 (per session).
D.Lit.	—	1 11 6† (Registration Fee).
D.Sc.	—	—

\* See page 385.

† Departmental Fee according to circumstances.

**NOTES.**

- Courses are provided for all Honours Schools except Oriental Languages, Literature and History, and Slavonic Studies. Courses for Oriental Languages and History can be taken at the School of Oriental Studies and for Slavonic Studies at King's College.
- This course is taken at the Bartlett School of Architecture, which forms part of University College.
- There is also a fee of 8 guineas for apparatus, &c.
- There is also a fee of 11 guineas for apparatus, &c.
- This course is taken at the Slade School of Fine Art, which forms part of University College.
- This is a College Certificate. Students desiring to enter the course must first pass an entrance examination or equivalent in English, Mathematics, Modern Language and one other subject.
- This is a College Diploma. Students desiring to enter the course must pass the London Matriculation Examination or the certificate entrance examination (see note (f)).
- This certificate is awarded by the College. Examination fee £1 1s. The courses available are: (a) English Phonetics for English Students; (b) English Phonetics for Foreign Students; (c) French, German, &c., Phonetics; (d) General Phonetics; (e) Research Work.
- This is a College Certificate, and the course is only open to students with certain defined qualifications in Architecture.
- This is a College Diploma and is open to post-graduate students with suitable qualifications.
- This course is intended for postgraduate students. Students applying for admission should be careful to submit an exact list of the subjects they propose to study.
- This fee is reduced in the case of Honours graduates of the College.

### STUDENTS' SOCIETIES.

The Union Society (for men) and the Women's Union Society organise the social and athletic activities of the college, and students paying the above composition fees are members without further subscription. There are many societies, such as the Engineering Society, French Society, Music Association, for all of which a small subscription is necessary, but to join these is purely optional.

### HOSTEL.

For Women there is College Hall, Malet Street, W.C. 1. Fees, £85 15s. to £122 17s. per session of 33 weeks.

### ADMISSION.

Applications from Indian students for admission to the College should be received not later than 31st May and should be accompanied by certificates as to their character, educational qualifications, &c. The College at its discretion may require such evidence to be authenticated by reference to the Education Department of the High Commissioner for India, unless an application has been forwarded in the first place through that Department and one of the University Bureaux or Local Advisory Committees.

*GENERAL NOTE.—The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Secretary of University College, Gower Street, London, W.C. 1.*

# University of London.

## Westfield College for Women.

All the degrees for which courses are provided are awarded by the University of London. For conditions of eligibility for a course, examination fees, &c., see "University of London," pages 70-78.

For details of the Matriculation Examination of the University of London, see pages 19-25.

Course.	Period of Study.	Tuition Fee.
B.A., Intermediate . . . .	1 year . . . .	£ s. d. 11 2 0 per session.
„ Final(a) . . . .	2 years . . . .	39 18 0 „ „
B.Sc., Intermediate and Final(a) . . . .	3 years . . . .	55 13 0 „ „
M.A. . . . .	2 years . . . .	22 1 0 for whole course.
M.Sc. . . . .	1 year . . . .	22 1 0
Ph.D. . . . .	2 years . . . .	22 1 0 per session.

### NOTE.

- (a) Courses are provided for the Honours Schools in Latin, Greek, Medieval and Modern History, Medieval and Modern Languages (English, French), Mathematics (for B.A. Honrs. or B.Sc., Special), Botany (B.Sc., Special), and the subjects for the B.Sc. (General Degree).

This is a residential College, and accommodation is provided for 140 students at a cost of £90 per session of approximately 30 weeks. There are a few rooms at £80 and £70 for first-year students. Non-resident students are admitted.

Candidates for admission have to pass a qualifying examination prescribed by the College (Fee, £1), and must also have passed the London Matriculation Examination. They must obtain and fill up and return the necessary form before the end of January, at the same time enclosing the examination fee of £1 and registration fee of 10s., which is not returnable. Students are not admitted under the age of 18 years.

### STUDENTS' SOCIETIES.

The College has the usual Union and Athletic Societies, open to all students paying an annual subscription of 35s.

GENERAL NOTE.—The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India and the High Commissioner for India (Education Department), London, or direct from the Principal, Westfield College, Kidderpore Avenue, London, N.W. 3.

## University of London.

### British Postgraduate Medical School.

The object of this newly-founded School is to provide a centre for the advancement of medical knowledge and for the further education of University graduates in Medicine. It is intended only for men and women holding University qualifications or qualifications registrable in Great Britain. Opportunities will be provided for investigation and research, both in the clinical field and in those allied sciences on which the practice of Medicine rests.

It is not intended to hold special coaching classes for Examinations, but the work will be of such a type as to be useful to graduates working for higher qualifications. The work is not suitable for students working for undergraduate qualifications such as the final L.R.C.P., M.R.C.S.

The provisional scale of fees at present is £5 5s. for one month, £10 10s. for three months and £15 15s. for six months.

Students desirous of taking advantage of the facilities available at this School should send a full statement of their requirements and qualifications either through the University Bureau or the Local Advisory Committee in India and the High Commissioner for India (Education Department), London, or direct to the Dean, British Postgraduate Medical School, Hammersmith Hospital, L.C.C., Ducane Road, Shepherds Bush, London, W. 12.

## University of London.

### Charing Cross Hospital Medical School.

Open only to men students.

This School provides courses for the Medical Degrees of the University of London. For conditions of eligibility for a course, examination fees, &c., see "University of London," pages 70-72, and for the London Matriculation, pages 19-25.

It also provides courses for Medical Qualifications and Diplomas awarded by other bodies, details of which will be found under the appropriate heading in Section III., "Medicine."

Complete course (excluding Vaccination, Dispensing, and Fevers(a))—

A. Entrance Fees—		£	s.	d.
(1) Primary and Intermediate studies (b) -		16	16	0
or,				
(2) Final studies - - - -		10	10	0
B. Annual Fee - - - -		39	18	0
M.R.C.P. (October to January) - - -		21	0	0

#### NOTES.

(a) Arrangements can be made to take these courses at a cost of £7 7s.

(b) The subjects of the first two years' work are taught in the Laboratories of the University of London, King's College.

#### STUDENTS' SOCIETIES.

Students are required to join the Club Union; the entrance fee is £6 6s. (included in Entrance Fees above), and the annual subscription £4 4s.

#### HOSTELS.

There are no hostels in connection with this School, but a list of specially recommended boarding houses is available for the use of students. The charges vary from 35s. to £3 3s. per week.

GENERAL NOTE.—*The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India and the High Commissioner for India (Education Department), London, or direct from the Dean of Charing Cross Hospital Medical School, London, W.C. 2.*

## University of London.

### Guy's Hospital Medical School, and Guy's Hospital Dental School.

No women are admitted to this School.

This School provides courses for the Medical Degrees of the University of London. For conditions of eligibility for a course, examination fees, &c., see "University of London," pages 70-78, and for the London Matriculation, pages 19-25.

It also provides courses for Medical Qualifications and Diplomas awarded by other bodies, details of which will be found under the appropriate heading in Section III., "Medicine."

#### MEDICAL SCHOOL.

##### Fees.

<i>M.B., B.S. Course:—</i>	<i>£</i>	<i>s.</i>	
(a) First year (Chemistry, Physics and Biology).	22	8	(and materials, £7).
(b) Students entering subsequent to passing first M.B. Examination.	28	0	(Entrance Fee, from which can be deducted first year's fee of £22 8s)
	49	0	(Annual Fee)
(c) Students entering for the Clinical Period of Study, after having passed Second M.B. London Examination.	14	0	(Entrance Fee, from which is deducted all fees paid for revision classes in Anatomy and Physiology attended before passing an examination in these subjects).
	49	0	(Annual Fee).
<i>L.R.C.P., M.R.C.S. Course:—</i>			
Pre-medical - - - - -	24	10	
Entrance Fee - - - - -	20	0	(from which can be deducted £14, being part of the fees paid for the pre-medical course)
First and subsequent years - - - - -	49	0	(Annual fee).
Hospital Practice, including Revision Course for L.R.C.P., M.R.C.S. (two months before the examination in January, April and July) - - - - -	16	16	
Primary F.R.C.S. (Feb. and Sept.) - - - - -	11	4	per subject.
Final F.R.C.S. (three months' Course twice yearly, from March and Sept.) - - - - -	31	10	

#### DENTAL SCHOOL.

	<i>£</i>
Course for B.D.S. (London) - - - - -	309
Course for Dental Qualification (L.D.S., R.C.S.), (four years) - - - - -	280
Combined Course for Dental and Medical Qualification (seven yrs.) - - - - -	443
Two years' Course for Medical Practitioners - - - - -	182

#### STUDENTS' SOCIETIES.

The Clubs' Union covers the various social and athletic pursuits of the Medical School, the annual inclusive subscription being five guineas.

#### HOSTELS.

There is certain residential accommodation at the College itself. The charges vary according to the accommodation, from 16s. 3d. to 26s. per week. This does not include food, fire, lighting and washing. Every student on going into residence in the College must become a member of the Clubs' Union.

**GENERAL NOTE.**—The above general particulars should be verified in each case and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Dean to Guy's Hospital Medical (or Dental) School, St. Thomas's Street, S.E. 1.

## University of London.

### King's College Hospital Medical School.

This School provides courses for the Medical Degrees of the University of London. For conditions of eligibility for a course, examination fees, &c., see "University of London," pages 70-78, and for the London Matriculation, pages 19-25.

In the event of there being vacancies, it also provides courses for certain Medical Diplomas awarded by other bodies, details of which will be found under the appropriate heading in Section III., "Medicine."

	£	s.	d.
Complete Course (M.B., B.S., Lond.) (including 3 full years' tuition at King's College, but excluding Practical Pharmacy, £2 12s. 6d.; Fevers, £3 3s.; Vaccination, £1 11s. 6d. and the Clubs Subscription of £2 5s. per annum)	210	0	0
Psychological Medicine (Lectures and Demonstrations)	6	6	0
Radiology (6 months' course with clinical instruction)	23	2	0
M.R.C.P. Course (generally February and May)	21	0	0
Clinical Fees only (12 months)	36	15	0

#### NOTES.

Application must be made not less than three months before the date when admission is sought.

Admission is seldom granted for less than one year.

Students can commence their studies in October only.

The proportion of Oriental students can at no time exceed one-tenth of the whole number admitted.

#### STUDENTS' SOCIETIES.

The King's College Hospital Clubs and Societies Union is open to all students of the Medical School. The present subscription is 15s. per term.

**GENERAL NOTE.**—*The above general particulars should be verified in each case, and fuller information can be obtained either through the or the Local Advisory Committee in India, and the for India (Education Department), London, or direct from the Dean of the King's College Hospital Medical School, Denmark Hill, S.E. 5.*

### School of Dental Surgery.

This School provides courses for the Diploma in Dental Surgery of the Royal College of Surgeons, England (see page 256), and for the Degree of Bachelor of Dental Surgery of the University of London.

Fees:—	£	s.	d.
Pre-Medical Examination (Chemistry, Physics and Biology)	38	17	0
Course for L.D.S., R.C.S., 4 years	252	0	0
For the B.D.S., University of London (5 years)	304	11	0

**GENERAL NOTE.**—*The above general particulars should be verified in each case and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Secretary of the Medical School, King's College Hospital, Denmark Hill, S.E. 5.*

## University of London.

### London Hospital Medical College.

Men students only are eligible for admission.

Only post-graduate Indian students are admitted to this Medical College, and as a rule only after interview at the College.

This College provides courses for the Medical Degrees of the University of London. For conditions of eligibility for a course, examination fees, &c, see "University of London," pages 70-78, and for the London Matriculation, pages 19-25.

It also provides courses for Medical Qualifications and Diplomas awarded by other bodies, details of which will be found under the appropriate heading in Section III., "Medicine."

Complete Course for Medical Qualification —		£	s.	d.
Entrance fee	-	-	-	-
To students who have completed the Intermediate Course				
Course	-	10	10	0
Annual fee (for remainder of Course)	-	42	0	0
Primary F.R.C.S. (September and February)	-	15	15	0
Final F.R.C.S. (September and March)	-	26	5	0
Advanced Operative Surgery	-	10	10	0
M.D. or M.R.C.P. (April and October)	-	21	0	0
Clinical Laboratory Methods	-	5	5	0
Radiology (Diploma Course)	-	8	8	0

#### Dental Courses.—

Full Course (including Dental Mechanics) for L.D.S. —

Four years' Course*	-	240	0	0
Dental Mechanics—Two years' Course	-	120	0	0
Dental Course (exclusive of Dental Mechanics) and Medical Course for L.D.S.—Two years' Course	-	130	0	0

\* Students who complete their pupillage before entering the School will be given a test examination in Dental Mechanics, and in the event of their not passing the examination they will be required to attend a revision course in the subject, and to pay a fee for the Course at the rate of £15 for three months

Students can commence their studies in October or May.

#### STUDENTS' SOCIETIES.

The College Clubs' Union is open to all students. The annual subscription is £5. All students are expected to become members.

**GENERAL NOTE.**—The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Dean, the London Hospital Medical College, Turner Street, London, E. 1.



## University of London.

### London (Royal Free Hospital) School of Medicine for Women.

This School provides courses for the Medical Degrees of the University of London. For conditions of eligibility for a course, examination fees, &c., see "University of London," pages 70-78, and for the London Matriculation, pages 19-25.

It also provides courses for certain Qualifications and Diplomas awarded by other bodies, details of which will be found under the appropriate heading in Section III., "Medicine."

The courses of study commence in October.

#### FEES.

1. The Annual Fee for each year is £50. After payment of six annual fees subsequent payments are at the rate of £25 for six months.

2. Students entering for the Clinical Course only pay an entrance fee of £25, in addition to the Annual Fee.

3. A refund of £15 is made to any student who, having paid six annual fees, gains the M.B., B.S. Degree (University of London), or, if eligible only for the Conjoint Board, obtains that Diploma, within nine months of the period covered by the sixth payment.

4. The Annual Fee is due when a student joins the School and at the beginning of each subsequent 12 months. Fees are not returnable. The course of study pursued by a student must be continuous, unless the School Authorities, on the ground of illness or other adequate reason, may otherwise determine.

5. The payment of the Annual Fee entitles a student to attend the instruction provided by the School and Hospital for students of her standing, and is inclusive.

#### PRIMARY FELLOWSHIP STUDENTS.

(1) Students of the School are entitled to attend the Special Classes for the Primary F.R.C.S. Examination if recommended to do so by their teachers (January and June).

(2) Graduates from the School not paying an annual fee pay £15 for the Course.

(3) Graduates or Students from other Schools pay £25 for the Course.

#### PARTIAL COURSES.

The School provides a Course of Partial Study for women who have already obtained a medical qualification for three months once a year from January to March.

The Course will include formal teaching only, and will consist of classes in Surgical Anatomy, Surgical Pathology, Tutorial classes in Medicine, Surgery, Obstetrics and Gynaecology, Rounds in the Pathology Museum, and a Course of Vaccination. The Course can only be held if a minimum number of four students present themselves, and the fee will be £15, covering teaching, the use of material, and the general amenities of the School throughout the Course. Clinical

facilities are not included and must be obtained at one of the hospitals in London, e.g. West London Post-Graduate.

Applications must be submitted to the School on the prescribed form through the Education Department of the Office of the High Commissioner for India to reach the School not later than the 1st January.

#### SPECIAL COURSES.

Registered medical women (graduates of an Indian University) wishing to take out Special Courses in Treatment of Venereal Diseases can pursue the course at the Medical School, by arrangement with the Fellowship of Medicine and Postgraduate Association, 1, Wimpole Street, W. 1.

#### DENTAL STUDENTS.

The School provides courses for the L.D.S., R.C.S., in conjunction with the National Dental Hospital (University College Hospital Dental Department). The course lasts five years, and the fees payable to the School are £50 for the first year (Pre-Medical Course), and £25 for part-time attendance during the second and fourth years. The rest of the course would be taken at the National Dental Hospital, the annual fee for full-time attendance being £63 (which would be reduced for the part-time attendance during the second and fourth years).

#### STUDENTS' SOCIETIES.

All students are required to join the Students' Union, of which the annual subscription is £3 5s. Dental Students pay annual subscription of £1 11s. 6d. Students taking special courses pay £2 2s. for six months or less.

#### HOSTELS.

The Students' Chambers' Society provides unfurnished sets of chambers for students of the School at various houses owned by the Society. At one house, furnished study-bedrooms with service and board can be obtained. The fees for such rooms are £70 to £92 per annum with an addition of £1 per week for board while in residence.

The average cost of residence per week is £2 10s.

**GENERAL NOTE.**—*The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Warden and Secretary, London (Royal Free Hospital) School of Medicine for Women, Hunter Street, W.C. 1.*

## University of London.

### London School of Hygiene and Tropical Medicine.

This School provides courses for the Diploma in Tropical Medicine and Hygiene of the Examining Board in England, for the Academic Diplomas in Bacteriology and in Psychology (Industrial) of the University of London, and for the Diplomas in Public Health of the University of London and of the Examining Board in England. Arrangements can also be made for candidates who have been External Students of the University of London and who are desirous of taking the M.D. in Tropical Medicine and in Hygiene of the University. Special courses in various subjects are also given.

Course.	Length of Course.	Fees.
Diploma in Tropical Medicine and Hygiene (a):		£ s. d.
Section A (Clinical and laboratory) -	3 months (b) -	25 0 0
Section B -	2 months (c) -	15 0 0
Diploma in Bacteriology (d) -	9 months -	47 15 0
Diploma in Public Health (e) -	9 months -	50 14 0
Diploma in Psychology (Industrial) (f) -	9 months -	28 9 0
Special courses in Epidemiology and Vital Statistics.	3 months -	7 7 0
Other special courses -	—	By arrangement

#### NOTES.

- (a) See page 251. This course is a recognised course for Associate Students of the University of London.
- (b) This course is held three times yearly (commencing in January, April and October). Students can be admitted to Section A of the course at intervals of approximately one month and two months after the beginning of the course, and may take parts of the laboratory instruction or of the clinical instruction or of both at proportionate fees.
- (c) This course is held twice yearly (commencing in January and April).
- (d) See page 228. This course commences in October. The annual number of vacancies for this course is very small and preference will normally be given to applicants who have already had Bacteriological experience.
- (e) See pages 245 and 248. This course commences in October.
- (f) This Academic Diploma is that awarded by the University of London, with the option of Sec. C., Industrial and Commercial. The course commences in October.

#### STAFF CLUB.

Students are invited to become Associate Members of the Staff Club at a nominal subscription of 5s. per annum. The privileges of membership include the use of the Refectory, Students' Common Rooms and such recreations as are provided by the Staff Club from time to time.

#### HOSTELS.

There are no hostels in connection with this School, but the Secretary will be glad to assist students in the selection of places of residence during the time they are attending the School. A list of available Hotels and Boarding Houses can be seen at the office.

**GENERAL NOTE.**—The above general particulars should be verified in each case and fuller information can be obtained through the Local Advisory Committee in India and the High Commissioner for India (Education Department), London, or direct from the Secretary to the London School of Hygiene and Tropical Medicine, Keppel Street, Gower Street, London, W.C. 1.

## University of London.

### Middlesex Hospital Medical School.

This School provides courses for the Medical Degrees of the University of London. For conditions of eligibility for a course, examination fees, &c., see "University of London," pages 70-78, and for the London Matriculation, pages 19-25.

It also provides courses for Medical Qualifications and Diplomas awarded by other bodies, details of which will be found under the appropriate heading in Section III., "Medicine."

	£	s.	d.
(A) Preliminary Science Students			
For one year or less.	21	0	0
Entrance fee, payable on joining the Medical School	25	0	0(a)
(B) Students who have completed the Preliminary Science Course:			
Five annual fees of	45	0	0(b)
The annual fee for further attendance at the Medical School, if a registrable qualification has not been obtained, is	23	0	0(b)
And three-quarters, one-half, or one-quarter of this last Annual Fee may, at the discretion of the School Council, be returned if the student obtains a registrable qualification within three, six or nine months of the annual payment becoming due.			
(C) Oxford and Cambridge and other Students who have completed the Intermediate Course.			
Entrance Fee	15	15	0
Three Annual Fees of	45	0	0(b)
(Further Annual Fees as above).			
Primary F.R.C.S. (February and September)	21	0	0
Diploma in Radiology of University of Cambridge	15	15	0
	3 Months.	6 Months.	1 Year.
Hospital Practice:	£	s.	d.
Medicine, Surgery, or Midwifery and			
Gynaecology	15	15	0
	26	5	0
			36 15 0

#### NOTES.

- (a) The above Entrance Fees include the subscription to the Amalgamated Clubs (being £15 15s. in the case of students joining the full course, and £7 7s. for those joining for their final studies).
- (b) The Annual Fees are inclusive and cover the cost of anatomical parts and instruction obtained from Public Authorities in vaccination and the diagnosis and treatment of infectious fevers.

#### RESTAURANT.

There is a restaurant in the Medical School capable of seating over 100 students. Common rooms and a squash racquets court are provided.

#### HOSTELS.

No hostel is maintained by the School.

There is no accommodation for women students.

**GENERAL NOTE.**—The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Dean of the Middlesex Hospital Medical School, Mortimer Street, W. 1.

## University of London.

### The Royal Dental Hospital of London.

There is no accommodation for women at this Dental School (a).

This School provides courses for the dental degree of B.D.S. of the University of London. For conditions of eligibility for a course, examination fees, &c., see under "University of London," pages 70 to 78, and for London Matriculation, pages 19 to 25.

It also provides courses for the Licentiate in Dental Surgery of the Royal College of Surgeons, details of which will be found on pages 256 to 263.

Courses.	Period of Study.	Fees.
B.D.S. . . . .	4 years (b) .	£281 17s. (approx.) (c).
L.D.S., R.C.S., Dental Mechanics, Dental Hospital Practice and Lectures.	4 years (d) .	£213 10s. (e).
L.D.S., R.C.S., Dental Hospital Practice and Lectures.	2 years .	£70 (or in two instalments £73 10s.).
Instruction in Dental Mechanics . . .	per annum	£70
Dental Hospital Practice . . . . .	per annum	£35

#### NOTES.

- (a) Women can take the Dental Course from the London School of Medicine for Women and the National Dental Hospital (see page 108).  
 (b) This excludes the course for the First B.D.S. Examination of the University.  
 (c) Including fees for the prescribed courses at a general medical school.  
 (d) This excludes the course for the Pre-Medical examination.  
 (e) In addition it is necessary for the student to attend a general medical school during his first and third years for the general subjects required for the L.D.S., R.C.S., the fees being approximately £46 4s. for the two years' course.

#### STUDENTS' SOCIETIES.

For the Amalgamated Students' Clubs, £6 6s. to be paid as Entrance Fee on joining by all students, and £4 4s. annual subscription.

#### HOSTELS.

There is no hostel in connection with the School. Students who desire help in finding suitable lodgings should consult the University of London Lodgings Bureau, 68, Torrington Square, London, W.C.1.

**GENERAL NOTE.**—Fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India and the Secretary to the High Commissioner for India (Education Department), London, or direct from the Dean of the Royal Dental Hospital of London, Leicester Square, London, W.C. 2.

## University of London.

### St. Bartholomew's Hospital Medical College.

No women are admitted to this College.

This College provides courses for the Medical Degrees of the University of London. For conditions of eligibility for a course, examination fees, &c., see "University of London," pages 70-78, and for the London Matriculation, pages 19-25.

It also provides courses for Medical Qualifications and Diplomas awarded by other bodies, details of which will be found under the appropriate heading in Section III., "Medicine."

Entrance Fee.—£10 10s.

Course.	Period of Study.	Fees.
M.B., B.S., or other qualification (a) -	5 years to 5½ years.	£ 231 0 0 or 5 instalments of £50 8s.
F.R.C.S (excluding Operative Surgery) } (Sept. & Feb)	—	26 5 0
" Operative Surgery -	—	10 10 0
Hospital Practice for qualified medical practitioners -	3 months -	15 15 0 (minimum)
	6 months -	21 0 0
For attendance in any one of the special Clinical Departments (Eye, Throat, Ear, Children, Women, Skin, Venereal, Electro-Therapeutics, Orthopædic Surgery, X-Ray, Psychological Medicine, Dental Surgery).	3 months -	7 7 0

(a) Only in very exceptional circumstances can students be admitted who are not taking the course of one or other of the Universities.

#### STUDENTS' SOCIETIES.

Every student on admission is expected to become a member of the Students' Union, which includes certain scientific and athletic clubs. In addition, there are a number of social clubs which are not incorporated in the Students' Union.

Subscription—£15 15s. for full students and £12 12s. or £10 10s. for University students.

#### RESIDENTIAL COLLEGE.

The Residential College is at present closed owing to building operations. A register of suitable lodgings and of private families willing to receive students is kept by the Dean.

GENERAL NOTE.—The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Dean of St. Bartholomew's Hospital Medical College, Smithfield, E.C. 1.

## University of London.

### St. George's Hospital Medical School.

Women are not admitted to this Medical School.

This School provides courses for the Medical Degrees of the University of London. For conditions of eligibility for a course, examination fees, &c., see "University of London," pages 70-78, and for the London Matriculation, pages 19-25.

No student can be admitted except after a personal interview with the Dean, who may require a recommendation from the High Commissioner for India.

Full Course for Qualification —	£	s.	d.
First year (First Examination) (a)	-	36	15 0
Second and 3rd years (Second Examination) (a)	-	42	0 0 per annum.
Fourth and 5th years (Third Examination)	-	{ 10 10 0 (Entrance Fee).	
		{ 42 0 0 (Annual Fee)(b).	

#### NOTES.

- (a) A student takes the Preliminary and Intermediate studies at King's College, London.
- (b) A student who has obtained his medical qualification within 4 months of the date on which his last annual composition fee became due will be allowed a rebate of £21.

#### COLLEGE SOCIETIES.

The St. George's Hospital Club is open to all students; the annual subscription is £3 13s. 6d. for Clinical Students and 10s. for students at King's College.

#### HOSTELS.

There are no hostels in connection with this School.

**GENERAL NOTE.**—*The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India and the High Commissioner for India (Education Department), London, or direct from the Dean, St. George's Hospital Medical School, Hyde Park Corner, S.W. 1.*

## University of London.

### St. Mary's Hospital Medical School.

There is no accommodation for women students at this Medical School.

This School provides courses for the Medical Degrees of the University of London. For conditions of eligibility for a course, examination fees, &c., see "University of London," pages 70-78, and for the London Matriculation, pages 19-25.

It also provides courses for certain Medical Diplomas awarded by other bodies, details of which will be found under the appropriate heading in Section III., "Medicine."

	£	s.	d.	
Composition Fee for full course for qualification (M.B., B.S.)	205	0	0	or
	215	0	0	in four instalments.
Fees and Practical Pharmacy (not included in Composition Fee)	6	6	0	
Composition Fee for Clinical Course for qualification	99	15	0	or
	105	0	0	in two instalments.
Primary F.R.C.S. (February and September)	16	16	0	
Dental Course:—				
Medical Subjects for two years	73	10	0	
	3 months.	6 months.	months	
Hospital Practice:—	£	£	£	
General	14	21	35	
Medical or Surgical	10	14	21	

### STUDENTS' SOCIETIES.

The Amalgamated Clubs must be joined by all full-time students.  
The Composition Fee is:—

£	s.	d.	
15	15	0	for students taking full course.
10	10	0	" " " Clinical Course only.
1	1	0	(for 3 months), for students taking part courses.

### HOSTELS.

There is no hostel in connection with the School. A register of approved lodgings is kept.

**GENERAL NOTE.**—The above general particulars should be verified in each case and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Dean, St. Mary's Hospital Medical School, Praed Street, W. 2.



## University of London.

### St. Thomas's Hospital Medical School.

This School is not open to women.

This School provides courses for the Medical Degrees of the University of London. For conditions of eligibility for a course, examination fees, &c., see "University of London," pages 70-78, and for the London Matriculation, pages 19-25.

It also provides courses for Medical Degrees, Qualifications and Diplomas awarded by other bodies, details of which will be found under the appropriate heading in Section III., "Medicine."

	£	s.	d.
Annual Fee - . . . . .	50	0	0
This fee does not include the following:—			
Instruction in Infectious Fevers (payable to L.C.O.) - . . . .	3	3	0
Course for Final F.R.C.S. (including Operative Surgery) (a):—			
For St. Thomas's men - . . . . .	15	15	0
For External Students - . . . . .	26	5	0

(Including temporary membership of St. Thomas's House.)

(a) The Primary F.R.C.S. Course is open only to students of St. Thomas's, St. Bartholomew's or Guy's.

#### STUDENTS' SOCIETIES.

All students join the Amalgamated Clubs. This includes the membership of St. Thomas's House, which is run in connection with the School and all affiliated Athletic and other Clubs. The entry fee is £2 2s, and the annual subscription is £5 5s.

GENERAL NOTE.—The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India and the High Commissioner for India (Education Department), London, or direct from the Secretary, St. Thomas's Hospital School, Albert Embankment, S.E. 1.

## University of London.

### University College Hospital Medical School.

Twelve women students are admitted annually.

This School provides courses for the Medical Degrees of the University of London. For conditions of eligibility for a course, examination fees, &c., see "University of London," pages 70-78, and for the London Matriculation, pages 19-25.

It also provides courses for Medical Qualifications and Diplomas awarded by other bodies, details of which will be found under the appropriate heading in Section III., "Medicine."

AT UNIVERSITY COLLEGE:—		£	s.	d.
Course for First Examination (one Session)	-	39	18	0
Course for Second Examination (one Session, <i>plus</i> 2 terms) (exclusive of materials, &c.)	-	84	0	0

AT UNIVERSITY COLLEGE HOSPITAL MEDICAL SCHOOL:—				
Course for qualification (3rd, 4th, and 5th years):—				
Inclusive fee (payable by 3 annual instalments of £45)	-	135	0	0

Hospital Practice:—  
£5 5s. monthly.

DENTAL DEPARTMENT:—				
L.D.S., R.C.S. (4 years) (payable in 4 annual instalments of £63)		252	0	0
M.R.C.S., L.R.C.P., and L.D.S. (6 years' course) (payable in 6 annual instalments of £70)	-	420	0	0
L.D.S., R.C.S. (2 years' course for qualified practitioners)	-	180	0	0

NOTE.—The classes in Chemistry, Physics, Anatomy, and Physiology are held at University College; the Dental Practice at the National Dental Hospital (which is amalgamated with the Medical School).

B.D.S. (5 years). Fees to be arranged with the Sub-Dean for Dental Students.

### STUDENTS' SOCIETIES.

All students taking the full course are members of the Medical Society, or in the case of the women of the Women's Medical Society.

GENERAL NOTE.—*The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Dean of University College Hospital Medical School, University Street, London, W.C. 1, or in the case of Dental Students, from the Sub-Dean for Dental Students, at the same address.*

## University of London.

### Westminster Hospital Medical School.

No women are admitted to this School.

This School provides courses for the Medical Degrees of the University of London. For conditions of eligibility for a course, examination fees, &c., see "University of London," pages 70-78. and for the London Matriculation, pages 19-25.

It also provides courses for certain Medical Diplomas awarded by other bodies, details of which will be found under the appropriate heading in Section III., "Medicine."

#### Full Course for Qualification:—(a)

(M.B., B.S., London, Oxford or Cambridge):—

	£	s.	d.
Entrance Fee	10	10	0
" " (for students entering for the final subjects)	8	8	0
Annual Composition Fee	42	0	0
Vaccination, Fevers	4	14	6
Electrical Treatment and Radiography (3 months' course)	4	4	0
Primary F.R.C.S. (at King's College, London) (b)	15	15	0
Final F.R.C.S. Advanced Course of Operative Surgery (c)	10	10	0
" " Hospital Practice and Lectures -	(See below.)		
Hospital Practice:			
3 months' course	15	15	0
6 months' course	23	2	0
12 months' course	35	14	0

#### NOTE.

(a) The Preliminary and Intermediate Studies are pursued at King's College Strand, London.

(b) See page 88.

(c) This course is only held when a sufficient number of students apply.

#### STUDENTS' SOCIETIES.

The Clubs' Union is open to all general students without subscription.

#### HOSTELS.

There are no hostels in connection with this School.

**GENERAL NOTE.**—The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India and the High Commissioner for India (Education Department), London, or direct from the Dean, Westminster Hospital Medical School, 12, Gaxton Street, London, S.W. 1.

## London.

### (a) Institutions with Recognised Teachers, providing Courses for the Internal Degrees of the University.

**THE BATTERSEA POLYTECHNIC, LONDON, S.W. 11.**

This College provides technical training for students desiring to enter the Mechanical, Electrical, Automobile, Civil Engineering and Chemical professions, including Chemical Engineering. It prepares students for the London University Degrees in Science and Engineering, and also for the Technical Branch of Corporate Membership examinations of the various Professional Institutions.

The full course of instruction extends over three or four years, and diplomas are granted to those taking the full course and attaining the requisite standard of knowledge. Before being admitted to the Polytechnic, candidates are required to matriculate at the University of London or to pass an entrance examination. The chemical courses are suitable for students intending to devote themselves to Industrial Chemistry, or preparing to occupy positions in chemical works.

The fee charged to students residing in London for full daily attendance is £20 per session, or £7 per term. The session extends from September to July.

*Further particulars may be obtained from the Principal, Battersea Park Road, London, S.W. 11, either direct or through the University Bureau or Local Advisory Committee in India and the High Commissioner for India (Education Department), London.*

### **CHELSEA POLYTECHNIC.**

This Polytechnic provides Departments in Mathematics; Physics; Chemistry (including Micro-Photography and Dairy Science) and Metallurgy; Pharmacy; Biology (including Chiropody, Botany, Zoology, Bacteriology, Physiology, Bio-Chemistry and Bio-Physics); Geology, Mineralogy and Geography; Cookery, Housecraft and Dressmaking; Art; Music; Physical Education (women only). There is also a School of Agriculture and Horticulture organised in co-operation with the East Anglian Institute of Agriculture, Chelmsford.

Courses are recognised by the University of London for Internal Students for the degrees of B.Sc.; B.Pharm.; B.Sc. Metallurgy; First M.B. Research facilities are provided for the Higher Degrees of M.Sc., Ph.D. and D.Sc.

Courses are also provided for Non-University Professional Examinations, including the Associateship and Fellowship courses of the Institute of Chemistry; Associateship of the Institute of Physics; the Pre-Medical Examination of the Royal

College of Physicians and the Royal College of Surgeons; and the qualifications of the Pharmaceutical Society. Special Preparatory and Matriculation courses are also available.

All of these courses are available for both day and evening students.

A fee for a full-time sessional course is £21 for day students and £2 10s. for evening students, but lower fees are payable for those attending only for a limited number of hours per week.

*Fuller particulars can be obtained from the Principal, Chelsea Polytechnic, Manresa Road, Chelsea, London, S.W. 3, either direct or through the University Bureau or Local Advisory Committee in India and the Secretary to the High Commissioner for India (Education Department), London.*

#### NORTHAMPTON POLYTECHNIC INSTITUTE, LONDON.

This College provides technological courses in relation to engineering, optical and other industries.

Students should not be less than 16 years of age, and are required to pass an Entrance Examination.

Classes are held daily, Monday to Friday, during term, 10 a.m. to 1 p.m. and 2 p.m. to 5 p.m.

Tuition fees are £20 per annum in the case of students residing during term in London (£14, second and third year courses of the Engineering Day College). For students residing during term outside London the fee is £60 per annum (£40 for second and third year courses of the Engineering Day College). Students are required to pay the fees for the first two years of their course on enrolment.

*The Engineering Day College* provides courses in Civil, Mechanical, Aeronautical, Electrical, and Radio Engineering.

The organisation has recently been extended by the inclusion of an alternative course in Mechanical Engineering which provides, in addition to a general engineering curriculum, more specific training for Works Management.

The courses occupy four years and have a common curriculum for the first two years. During the second and third years courses terminate at Easter, students being placed in the works of commercial firms for practical training throughout the summer months of each of these years. The organisation accordingly provides for industrial experience in commercial works extending over about 10 months.

The College awards a diploma on successful completion of the four years' course, whilst matriculated students are able to enter for the Internal examinations of the University of London for degrees in Engineering. Normally the Intermediate examination for the degree is taken at the end of the first year, the Final examination at the conclusion of the course.

Courses cover the syllabuses for the Associate Membership examinations of the corresponding professional institutions.

The College Diploma in Electrical or Radio Engineering gives exemption from the Associate Membership examination of the Institution of Electrical Engineers, the Diploma in Aeronautical Engineering from the Associate Fellowship examination of the Royal Aeronautical Society, whilst the University Degree exempts, in addition, from Sections A and B of the examinations of the Institutions of Civil and Mechanical Engineers.

*Applied Optics.*—A full-time course in Ophthalmic Optics is provided and occupies two years. Diplomas are granted on successful completion of the course, whilst students are able to enter for the examinations for professional diplomas of the British Optical Association, the Spectacle Makers' Company, and other bodies.

For the accommodation of students living away from home, a list of suitable lodgings is maintained. Addresses from this list can be supplied by the Secretary after an interview.

The Polytechnic is provided with a well-appointed refectory, from which lunch and other meals and light refreshments are obtainable at very moderate charges.

*Prospectuses may be had on application to the Secretary, Northampton Polytechnic Institute, St. John Street, London, E.C. 1, either direct or through the University Bureau or Local Advisory Committee in India and the High Commissioner for India (Education Department), London.*

## THE NORTHERN POLYTECHNIC.

The Northern Polytechnic provides courses, some of which can be taken in the evening, for the Intermediate and Final B.Sc. (Pass), B.Sc. (General) Honours, and B.Sc. (Special) Honours in Chemistry, Physics, &c. These courses are recognised by the University of London and students may take the Internal degree. Evening courses for the London Matriculation are also available. Special courses in Rubber Technology are provided, and research work receives special encouragement. Among other courses the following may be mentioned :—

- (A) *Day Classes.*—Building Department: (a) Senior School of Architecture, Surveying and Building; (b) Junior Building Trades School. Music Trades Department: (a) Senior School for students intending to take positions of responsibility in Musical Instrument and Radio Factories; (b) Junior School for students who will enter the manufacturing or distributive side of the Musical Instrument Industry as Improvers. Chemistry Department: (a) Works Chemists' Course; (b) Junior Rubber Trade School; (c) Senior Course in Rubber Technology.

- (B) *Evening Classes.*—Chemistry, Physics, Geology, Mathematics, Photography, Botany, Zoology, Dressmaking, Plain Needlework, Millinery, Cookery, Laundrywork, Household

Management, Ambulance and Home Nursing, Pillow Lace, Lace Designing, Embroidery, Leatherwork, Painted Wood, Glass and China, Rattan, Rush and Basketry Work, Piano-forte Technology, Radio Servicing, Rubber Trades, Architecture, Surveying, Building, Decorating, Plumbing, &c.

*Women's Department.*—(a) Housecraft and Institutional Housekeepers' Courses; (b) "Cook's Certificate" Course; (c) Women Chefs' Course; (d) Children's Nurses' Course.

The fee for full-time courses varies from £12 to £20 per session, but smaller fees are payable for evening courses and are calculated by the number of hours and courses taken.

*Prospectuses may be had on application to the Principal, Northern Polytechnic, Holloway, London, N. 7, either direct or through the University Bureau or Local Advisory Committee in India and the High Commissioner for India (Education Department), London.*

#### SIR JOHN CASS TECHNICAL INSTITUTE.

This Institute provides courses for the London Matriculation Examination and for the University of London Internal Degrees of B.Sc. (General or Special), and B.A. (Hons.) in Mathematics and for the External B.Sc. (Eng.) in Metallurgy. It also provides facilities for the M.Sc., Ph.D., or D.Sc. (Internal and External). The Departments of the Institute are as follows: Physics and Mathematics, Inorganic and Physical Chemistry, Organic and Applied Chemistry, Bio-Chemistry or Fermentation (including Malting and Brewing), Petroleum Technology, Fuel Technology (including Coal Carbonisation and Gas Manufacture) and Metallurgy.

In addition there are classes in Arts and Crafts, Modern Languages, Tailoring (for men in the trade only), and Navigation and Seamanship. The Arts and Crafts covered are Silver-smithing and Metalwork, Diamond Mounting and Jewellery, Copperplate Engraving, Die-Sinking, Drawing, Design and Modelling. All the classes (with the exception of those in Navigation and Seamanship) are held in the evenings.

The sessional fees are: For one evening per week, 20s.; for two evenings per week, 35s. for Experimental Science students, 30s. for other students; for each additional evening per week, 10s. The terminal fee is one-half the sessional fee in most cases. Special fees are charged for the full-time courses in Navigation and Seamanship.

*GENERAL NOTE.*—The above general particulars should be verified in all cases, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India and the High Commissioner for India (Education Department), London, or direct from the Principal, Sir John Cass Technical Institute, Jewry Street, Aldgate, London, E.C.

## (b) Other Institutions.

## THE BOROUGH POLYTECHNIC.

This Polytechnic provides evening courses of instruction in various subjects, of which the following are the most important:—

Bakery, Chemistry, Manufacture of Painters' Oils Colours, Varnishes, Nitrocellulose Finishes, Synthetic Resins, Mechanical Engineering, Machine Construction and Drawing, Applied Mechanics, Heat Engines, Engineering Workshop Practice, Motor-Vehicle Engineering, Metallurgy, Brass Finishing and Light Metal-Work, Metal Plate-Work, Coppersmiths' and Braziers' Work, Building Trades, Electrical Engineering (including Installation Work and Cable Jointing), Physics, Dental Mechanics, Tailors' Cutting, Papermaking, Dressmaking and Ladies' Tailoring, Millinery, Laundrywork, Cookery, Sick Nursing and First Aid, Upholstery.

Full-time day courses are only available in Bakery and Confectionery.

The fee for the full-time course is £15 per session, but smaller fees are payable for evening classes and are calculated by the number of hours and courses taken.

*Prospectuses may be had on application to the Principal, The Borough Polytechnic, Borough Road, London, S.E. 1, either direct or through the University Bureau or Local Advisory Committee in India and the High Commissioner for India (Education Department), London.*

## CITY OF LONDON COLLEGE.

This College provides both day and evening courses for the External Intermediate B.Com. and B.Sc. Economics of the London University and also a preliminary provisional course for the Matriculation Examination, University of London, or the preliminary examinations of various professional bodies. It also provides general commercial courses (evening) covering costing, investment and finance, Stock Exchange, Export Trade, Sales Management, Salesmanship, Shipping, &c.; Modern Language courses in French, German, Spanish, Dutch, Italian, Portuguese and Russian; and also separate courses in the quality and condition of the commodity, and the organisation and routine of the trade in each of the following: Grain, Oils and Fats, Rubber, Tea, Textiles, Timber, Sugar, &c.

*Fees:—*

*Day Schools.*—Commercial and Secretarial course, £18 a session.

Commercial Intermediate B.Com. and B.Sc. Com., £20 a session.

*Evening Course.*—The fees are dependent upon the number of hours and lectures per week, varying from £1 5s. 6d. for one lecture a week during the session to



£2 10s. 6d. for six lectures a week during the season. Various courses are, however, grouped together and for these an inclusive fee which may vary in each case is charged.

GENERAL NOTE.—*The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Principal, City of London College, Ropemaker Street, Moorfields, London, E.C. 2.*

### THE POLYTECHNIC.

This Institute provides courses of instruction in various subjects, of which the following are the most important:—

- (a) *Day Departments* : Architecture, Surveying and Building, Art, Chemistry, Commerce, including the course for the Inter. B.Com. (External) of the University of London, Engineering, Mathematics and Physics, Matriculation Department and Professional Side, Modern Languages, Secondary School for Boys, Craft Schools for Boys (Architecture and Engineering Preliminary Department, Hairdressing, Motor Body and Commercial Vehicle Building, and Tailoring), Photography.
- (b) *Evening Classes* : Architecture, Surveying and Building, Carpentry, Cabinet Making and Furniture Design, Plumbing, Engineering (Mechanical, Civil, Electrical and Automobile), Telephony and Telegraphy, Wireless and High Frequency, Chemistry (including Pigments, Varnishes, &c., Oils, Fats and Waxes, and Gas Engineering and Manufacture), Matriculation Courses, Professional Preliminary Courses, Mathematics and Physics, Art, Photography, Commerce, Industrial Administration, Modern Languages, Speech Training and Dramatic Art, Domestic Science, Tailoring, Hairdressing and Motor Body and Commercial Vehicle Building (for Trade Workers only).

The fees for full-time courses for students residing within the Administrative County of London range from 12 guineas to 21 guineas per annum. The fee for evening courses is generally £1 10s. per session.

*Prospectuses may be had on application to the Director of Education, The Polytechnic, 307-311, Regent Street, London, W. 1, either direct or through the University Bureau or Local Advisory Committee in India and the High Commissioner for India (Education Department), London.*

# University of Manchester

(including the Municipal College of Technology).

Unless it is otherwise so stated, a student entering on any course must have passed the Matriculation Examination or have been exempted therefrom (exemption fee, £2).

For particulars of the Matriculation Examination, see pages 12-18.

Registration Fee, £3 3s. (including Library and Athletic Union fees), which is included in the tuition fees shown below.

Course.	Period of Study.	Tuition Fees (per Session).	Examination Fees.	Degree Fees.
<b>DEGREES.</b>				
B.A. (Ordinary)	3 years	£ s. d. +32 0 6	£ s. d. 5 5 0	£ s. d. 8 8 0
B.Sc. (Ordinary) (excluding Engineering).	3 years	+32 0 6 (where no laboratory subject is taken). +37 5 6 (with one laboratory subject). +42 10 6 (with more than one laboratory subject).	4 4 0	8 8 0
B.Sc. (Ordinary) in Pharmacy†	3 years	42 10 6		
B.Sc. (Ordinary) Engineering	3 years	+47 15 6 First two sessions. +42 10 6 Third session		
B.A. (Honours): Architecture	5 years	+36 15 0 First three sessions. +23 12 6 Fourth and fifth sessions.	3 3 0 (for Architecture £6 6s) + 10 6 (for each intermediate subject).	8 8 0
Other subjects*	3 years	+32 0 6		
B.Sc. (Honours):— Mathematics Engineering Chemistry, Metallurgy Physics, Physiology, Anatomy, Geology, General Science Zoology, Botany, Psychology Geography and Anthropology	3 years	+32 0 6 +47 15 6 +44 12 6  +42 10 6 +40 8 6	5 5 0	8 8 0
B.A. (Com) or B.A. (Admin.).	3 years	{ 21 0 0 25 4 0 (if laboratory subject is taken)	{ 10 6 per subject (approx. 10 subjects).	8 8 0
L.L.B.	{ 1st year 2nd and 3rd years.	{ 16 16 0 12 12 0 (per session)		

\* Honours Schools in Greek, Latin, Classics, History, English Language and Literature, French Studies, German Language and Literature, Philosophy, Economics and Political Science, Oriental Studies, Celtic Studies, Russian Language and Literature, Italian Studies, Geography, Spanish Studies.

These Composition Fees, which include Membership of the Students' Union, are 10s. 6d. less for women, in view of the difference in the Men's and Women's Union Fees.

† This course includes all subjects of a Pharmaceutical Chemist's qualifying examination. The degree does not confer the right to practise Pharmacy, but a person who has passed the final examination for this degree and who has completed an apprenticeship of 2,000 hours and has passed the examination in forensic Pharmacy conducted by the Society, would be entitled to be registered as a Pharmaceutical Chemist.

Course.	Period of Study.	Tuition Fees (per Session).	Examination Fees.	Degree Fees.
DEGREES—cont.				
R.Sc. Tech.;				
Engineering (Mechanical, Electrical, Municipal).	3 years	£ s. d. 64 7 0	£ s. d. Ordinary Courses— 4 4 0 Higher Courses— 3 3 0	£ s. d. 8 5 0
Applied Chemistry (including courses in General Chemical Technology, Chemical Engineering, Electro-Chemistry, Food-stuffs, Fuel, Metallurgy and Assaying, Fermentation Processes, Colouring Matters and Photography).				
Textile Chemistry (including Chemistry of Textiles, Paper Manufacture)				
Textile Industries (including courses in General Textile Technology, Cotton Spinning, Cotton Manufacture, Textile Engineering and Design).				
Mining (Coal and Metal)				
Building				
MEDICINE.				
M.B., Ch.B.:				
1st M.B.	6 years	†42 10 6 (First year)	8 8 0	—
Remaining 5 years		†119 14 0 (payable in equal instalments at the beginning of each of the next four years of study), and	8 8 0 2nd 8 8 0 3rd 8 8 0 (Final)	8 8 0
		93 9 0 Hospital Composition fees.		
B.D.S.	5½ years	†100 16 0 (payable in equal instalments at the beginning of the first, second and third years of study), and	6 6 0 1st 3 3 0 2nd 4 4 0 3rd 6 6 0 4th	8 8 0
		183 15 0 Hospital Composition fees.		
DIPLOMAS.				
Diploma in Dentistry (L.D.S.)(a)	5 years	†90 6 0 (payable in equal instalments at the beginning of the first, second and third years of study), and	3 3 0 1st 3 3 0 2nd 3 3 0 3rd 4 4 0 4th 4 4 0 (Final)	8 8 0
		141 15 0 Hospital Composition fees.		
Diploma in Psychological Medicine (two parts) (b).	1 year	26 5 0 and Hospital fees.	16 16 0	—
Diploma in Veterinary State Medicine (two parts) (c).	—	21 0 0 + £10 10s. for Practical Instruction.	12 12 0	—
Diploma in Public Health (b)	—	35 14 0 (£23 2s. Part I. alone. £12 12s. Part II. alone).	16 16 0	—

† These Composition Fees, which include membership of the Students' Union, are 10s. 6d. less for women, in view of the difference in the Men's and Women's Union Fees.

Course.	Period of Study.	Tuition Fees (per Session).	Examination Fees.	Degree Fees.
<b>DIPLOMAS—cont.</b>				
Diploma in Geography (d)	1 or 2 years	£ 10 10 0 (1st session) 5 5 0 (2nd session, if taken).	£ 6 6 0	—
Diploma in Bacteriology (f)	1 year	35 14 0 + £8 6s. (apparatus fee).	5 5 0	—
Diploma in Pathology (f)	1 year	25 14 0 + £6 6s. (apparatus fee).	5 5 0	—
Diploma in Chemical Engineering.	1 year	45 0 0	3 3 0	—
Teacher's Diploma (d)	1 year	†35 10 6	3 3 0	—
Diploma in Social Study (c)	2 years	*16 16 0 (1st session) 12 12 0 (2nd session) 23 2 0 (if excused one year's attendance).	3 3 0	—
Diploma in Architecture	5 years	†36 15 0 (First three sessions). †23 12 6 (4th and 5th sessions).	3 3 0	—
<b>CERTIFICATES.</b>				
Certificates in Technology (g): Engineering, Applied Chemistry, Textile Industries, Building.	3 years	†64 7 0	2 2 0	—
Mining	2 years	†64 7 0	2 2 0	—
Photography	2 years	†49 7 0	2 2 0	—
Distinction Certificate in Technology (h).	1 year	12 12 0 (if in attendance).	3 3 0	—
Certificate for Teachers of the Deaf (d).	1 year	†35 10 6	3 3 0	—
Higher Commercial Certificate Examination (i).	2 years	21 0 0	3 3 0 (about 6 subjects at 10s. 6d. each).	—
Certificate in Public Administration (i).	2 years	18 18 0	3 3 0 (about 6 subjects at 10s. 6d. each).	—

\* Persons who have not already paid a registration fee in this University for a period of three years will pay a registration fee of £1 1s. per session in addition.

† These Composition Fees, which include membership of the Students' Union, are 10s. 6d. less for women, in view of the difference in the Men's and Women's Union Fees.

#### NOTES.

(a) Candidates must first pass a preliminary examination in general education recognised by the General Medical Council. (See page 194.)

(b) Open to students holding a medical qualification registrable by the General Medical Council. (See pages 217 and 242.)

(c) This is only open to students who have obtained the Membership of the Royal College of Veterinary Surgeons and have attended approved courses of instruction. (See page 408.)

(d) These one-year courses are only open to graduates of approved Universities.

(e) Open only to graduates of approved Universities and holders of the Certificate in Public Administration.

(f) Open to candidates who have graduated in Science or in Medicine at Manchester or an approved University. See also pages 229 and 239.

(g) Candidates for the certificate in Technology are required to pass an entrance examination in the following subjects:—

(i) English, (ii) Mathematics, (iii) an approved Foreign Language, (iv) Mechanics, Physics and Chemistry. Exemption may be granted to students producing evidence of having passed a public examination of adequate standard. (Fee, £2 2s.)

(h) For students who having passed satisfactorily the courses for the Certificate, spend a fourth year in the laboratory and submit an approved thesis on some subject connected with their work.

(i) Candidates must give evidence of having reached an educational standard equivalent to the Matriculation Examination, or must pass an entrance examination in Mathematics, English Essay, General Knowledge, and an approved language—Oriental, French, or German.

Courses of study are provided in the Pharmaceutical Department of the University in preparation for the examinations of the Pharmaceutical Society.

Composition fee for six months' course for preliminary Scientific examination*	£ s. d. 23 12 6
Composition fee for nine months' course for Chemist and Druggist qualifying examination	32 0 6
Composition fee for Pharmaceutical Chemist qualifying examination (course extends over two sessions)	32 0 6 per session

# HIGHER AND RESEARCH DEGREES.

Degree	Tuition Fee.	Exam. Fee or Thesis.	Degree Fee.	Exemption Fee for Graduates from other Universities who studied not in the College.	Degree Fee for Graduates from other Universities who studied not in the College.
M.Sc.	£ s. d. 7 7 0 to 17 17 0†	3 3 0	8 8 0	3 3 0	8 8 0
M.Sc. Tech.	12 12 0† + registration fee.	3 3 0	8 8 0	3 3 0	8 8 0
M.A.	M.A. and M.A.(Com.) and M.A.(Admin.)				
M.A.(Com.)	By thesis alone	3 3 0	8 8 0	3 3 0	8 8 0
M.A.(Admin.)	7 7 0‡ By exam. and thesis				
LL.M.	10 10 0‡ 7 7 0‡	3 3 0	8 8 0	3 3 0	8 8 0
M.Ed.	Supervision or tuition fee £4 4s.‡ per session, in addition to fees for classes and lectures.	4 4 0	8 8 0	3 3 0	8 8 0
Ph.D.:					
(Science, Medicine and Technology Faculties.)	12 12 0 to 17 17 0 (according to subject taken).	10 0 0	5 0 0	5 0 0	—
(Other Faculties)	9 9 0	10 0 0	5 0 0	5 0 0	—
Ch.M.	—	10 0 0	10 10 0	—	—
M.D.S.	—	8 8 0	8 8 0	—	—
M.D.	—	6 6 0	9 9 0	—	—
Litt.D.§	—	10 10 0	5 5 0	—	—
D.Sc.†	—	10 10 0	5 5 0	8 8 0	—
LL.D.‡	—	10 10 0	5 5 0	8 8 0	—

\* Part-time courses of study in preparation for this examination are provided at the College of Technology, Manchester, and at other institutions in the district; they are intended to be taken during apprenticeship.

† According to the subject taken.

‡ Candidates for the Degree of D.Sc. and LL.D. respectively who are not graduates of this University are required to pay a fee of £8 8s. before commencing their course of study.

§ The degree of Litt.D. is open only to persons who have obtained the degree of Master or of Doctor of Philosophy in the University.

|| Persons who have not already paid a registration fee in this University for a period of three years will pay a registration fee of £1 1s. per session in addition.

The Degrees of M.A., M.Sc., M.Sc.Tech., Ch.M., M.D., M.D.S., M.A. (Com.), M.A. (Admin.), are all open to Bachelors of the University in the particular Faculty, of not less than one year's standing. A thesis or examination is required for the M.D. and M.D.S. A thesis alone is required for the M.Sc., LL.M., M.Sc.Tech. or M.Ed., and a thesis or thesis and examination, is required for the M.A., M.A. (Com.), M.A. (Admin.). An examination or examination and thesis is required for the Ch.M. Graduates of approved Universities may obtain the Degrees of M.A., M.Sc., LL.M., M.A. (Com.), M.A. (Admin.), M.Sc. Tech., and M.Ed. after two years' research under direction in the University.

The D.Sc., and LL.D. are open to Bachelors of four years' standing, and to graduates of approved Universities of similar standing who have obtained the Degree of Master, or an equivalent thereto after two years' study or research. Evidence of original research is required in each case.

The Ph.D. is open to graduates of recognised Universities after two years' study or research under direction in the University, an oral examination, and on presentation of a satisfactory thesis or published work.

Graduates for the M.Ed., which is a two years' course, must obtain the Teachers' Diploma at least one year before actually obtaining the Degree.

Candidates exempted from any University examinations are required to pay the fee for such examinations before commencing their course of study. In the case of persons studying for the degree of M.A. or M.Sc. or LL.M. or M.A. (Com.), or M.A. (Admin.), or M.Sc. Tech., or studying for the degree of M.Ed., the exemption fees are as follows:—Graduates of other Universities, £3 3s.; persons who are not graduates, £10 10s.

#### EXEMPTIONS.

The University has never laid down any general scheme for exemptions. Each application for exemption from any part of a course is dealt with individually and on its merits. It may be added that it has not been the practice of the University to allow exemptions from examinations, &c., to the same standard as those already passed in an Indian University.

NOTE I.—The University urges that Indian students should make applications in sufficient time (February or March) so that a definite reply may be received before the time comes for them to leave India.

NOTE II.—Persons desiring to enter on a course in the Faculty of Science leading to the Degree of B.Sc., or a course in the Faculty of Medicine leading to the Degrees of M.B., Ch.B., must have passed in Mechanics as one of the subjects of the Matriculation Examination, or to give evidence that shall be satisfactory to the Senate that they have attained a standard in Mechanics substantially equivalent to that of Matriculation. In the Faculties of Law and Medicine, Latin is required as a subject of the Matriculation Examination.

Students entering on any course for the Degree of Bachelors in the Faculties of Science, Medicine, and Technology, must have passed the subject of Mathematics in the Matriculation Examination, or an approved examination in Mathematics of an equivalent standard.

#### COLLEGE SOCIETIES.

The Composition Fees for Bachelor's degrees include the Registration, Library, Students' Union, and Athletic Union fees, except in certain cases.

Occasional Students may become members of the various Unions on payment of the following fees:—

	£	s.	d.
Men's Union - - - -	2	8	6
Women's Union - - - -	1	18	0
Men's Athletic Union - - -	2	0	0
Women's Athletic Union - - -	2	0	0

## HALLS OF RESIDENCE.

### Men:—

- Dalton Hall, £108 for academic year of about 31 weeks.  
 Hulme Hall, £78 15s. to £89 5s. for academic year.  
 St. Anselm Hall, £80 for about 30 weeks, *plus* 6s. a day outside Full Term.  
 Lancashire Independent College, £81 for about 30 weeks (£72 in third and subsequent years).  
 Unitarian College, £80 for about 30 weeks.

### Women:—

- Ashburne Hall, £69 6s. to £73 10s. per academic year.  
 Langdale Hall, Hostel for Church of England students taking the Four-year Course (Degree and Training of Teachers) £70 per academic year.  
 Ellis Llwyd Jones Hall, for students in Training as Teachers of the Deaf, £70 per academic year.  
 St. Gabriel's Hall, Hostel for Roman Catholic students, £65 and £55 per academic year.

## BOARD AND LODGING.

For students not residing in a hostel, the cost of board and lodging may be estimated at approximately £2 to £2 10s. per week.

The Local Adviser should, however, be consulted.

A register of approved lodgings is kept at the University and at the College of Technology.

### LOCAL ADVISER.

*Adviser to Indian Students.*—By the appointment of with the concurrence of the High Commissioner for India, Wood, University Lecturer on Physical Chemistry at the College of Technology, is Adviser to Indian Students in Manchester. They can obtain from him information or advice which may be useful to them in planning their course of study, and he will act as guardian and as administrator of their funds, if desired to do so by their parents or guardians.

GENERAL NOTE.—The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India, or through the High Commissioner for India (Education Department), London, or direct from the Local Adviser or the Registrar, The University, Manchester.

University and at

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## Oxford University.

### General Information.

#### ADMISSION.

No one can become a member of the University unless he first becomes a member of a College or other Society (*see* list below) **before** which it will be necessary either to pass Responsions, the first examination of the course for the B.A. Degree (*see* pages 26-27), or to obtain exemption from this examination by one of certain other examinations which are recognised by the University. An application for admission must, therefore, be addressed, not to any officer of the University, but to the proper officer of the Society to which admission is desired. Indian students, however, should apply in the first instance to the Secretary of the Delegacy for Oriental Students, Indian Institute, Oxford, either direct or through the University Bureaux or Local Advisory Committees, because practically all Societies receive applications only through the Delegacy.

The Societies of the University are:—*Colleges*: All Souls, Balliol, Brasenose, Christ Church, Corpus Christi, Exeter, Hertford, Jesus, Lincoln, Magdalen, Meiton, New College, Oriel, Pembroke, Queen's, St. John's, Trinity, University, Wadham, Worcester, Keble (this College only accepts students of the Anglican Church): St. Edmund Hall, St. Peter's Hall, and St. Catherine's Society (Non-Collegiate).

The Societies for women students at Oxford are: Lady Margaret Hall, Somerville College, St. Hugh's College, St. Hilda's College, and the Society of Oxford Home-Students.

Women students of the University are admitted to all degrees under the same conditions as those prescribed for men.

Applicants for admission to any of the Societies are usually required to pass an entrance examination, and must have passed Responsions or an equivalent examination before coming into residence. Some of the Societies accept Responsions, or an equivalent, in lieu of their own examination, but the practice in this respect varies so much that no general rule can be given.

The attention of Indian students is drawn to the necessity of a knowledge of languages. Latin is needed for the study of Law, and French is needed for most Honour schools. Candidates are advised to learn the languages as early as possible, as they are required for both Responsions and the First Public Examination.

A candidate should always send the following particulars with the application for admission:—

- (1) Full name and date of birth.
- (2) Father's (or guardian's) name, address, profession or position.



### PROCEDURE FOR APPLICATION.

Colleges and other Societies do not ordinarily consider applications made to them direct, but prefer to choose from a list of qualified applicants, sent to all Societies in April by the Delegacy for Oriental Students. Candidates should apply early to allow time for further correspondence before the date on which the list closes, i.e. the 31st March in each year. The number of applicants is always greater than the number selected. It does not follow that a man who is qualified will gain admission, so candidates are advised not to leave India until their admission has been arranged at least provisionally.

Before sending his application, a candidate should, if possible, refer to the Oxford Examination Statutes in the office of the nearest Students' University Bureau or Advisory Committee, in order to ensure that he is qualified to undertake the course he proposes, especially with regard to the prescribed modern languages. Candidates qualified for Senior Standing have the best chance of admission. Those who are exempt from Responsions in virtue of a degree obtained at an approved Indian University, with a classical Oriental language included, should state whether they know any French (or other of the prescribed languages), which is needed for the First Public Examination.

Candidates for postgraduate degrees (B.Litt., B.Sc., D.Phil., B.C.L.) have to be approved by the Board of the Faculty concerned. Therefore Societies will not admit candidates to whom approval has not been given or is not likely to be given.

### UNIVERSITY TERMS.

The academical year, which begins in October and ends in July, consists of three terms, and residence during a certain number of terms, usually nine and never less than six, is a condition of admission to any degree. Terms must be kept by residence within the walls of a College or in licensed or authorised lodgings, and the terms are three

periods, each of eight weeks, commencing respectively in October, January, and April or May. Students should realise that though the rest of the year is called vacation, it is not intended to be reckoned holiday. They are expected to do a large part of their reading in vacation, otherwise they cannot profit by the lectures.

#### RESIDENCE.

Rooms in College cannot always be provided for all applicants, and in such cases students must reside in lodgings. It is, however, to be pointed out that residence is only allowed in lodgings which are specially licensed or authorised by the University authorities, except in the case of men over 25 years of age, or married men whose wives are living with them.

#### EXPENSES.

It is not possible to make any exact estimate of the cost of a University course, which varies at different Colleges and depends upon the student's own means and tastes. Below are enumerated certain items common to all undergraduates, which give an approximate idea of the expenditure per annum in term time:—

##### (a) *Payments on commencing residence:—*

###### *University:—*

Matriculation fee, £5.

###### *College:—*

- (1) Admission fee. Usually £5, but in some cases more, up to £20.
- (2) Caution money (returned when name is removed from the books, and often in part on taking a degree), varies from £30 to £10. But some Colleges require a larger sum from men whose home is overseas or require a deposit to be made with the Delagacy for Oriental Students. See last paragraph, page 134.

##### (b) *Payments during residence:—*

###### *University:—*

- (1) Dues, £4 10s. per annum paid terminally.
- (2) Examination fees, about £9 in all for the B.A. course, exclusive of Responsions.
- (3) Degree fees. B.A. degree £7 10s., B.Litt. or B.Sc. £7 10s.

###### *College:—*

- (1) Tuition fee, varies from £31 10s. to £24 per annum;
- (2) Room rent, varies considerably according to the advantages or defects of the room; an average rental would be £18 to £24 per annum.
- (3) Hire of furniture, say £6 per annum. At some Colleges instead of hiring furniture from the College a student may, if he prefers, take over the furniture in his room at a valuation.

- (4) Rates and taxes on the rooms occupied.
- (5) College dues and establishment charges.
- (6) Kitchen and buttery bills. At some Colleges all meals are now served in Hall at a fixed charge.
- (7) Fuel, laundry, lighting, &c.
- (8) Subscriptions to College clubs, about £6 per annum.
- (9) Degree fees, which vary between £5 and £1.

The total cost of living in College might perhaps be estimated at about £80 per term for a man who exercises reasonable care in his personal expenditure.

At Keble College there is a fixed annual charge (at present £150) covering tuition, rent of furnished rooms, board and service. This applies to term only.

The necessary expenses of a non-collegiate student should be considerably less than those of a student residing in a College.

The expenses of an economical man are represented to a largely preponderating extent by the "battels" or weekly and terminal bills, which are sent in to him by his College. The totals of battels have been constantly increased of late years by the facilities now afforded to undergraduates for obtaining from the Colleges necessities formerly supplied by tradesmen. Battels now often include the bill from the common room store for the supply of groceries, &c., laundry bill, charge for hire and depreciation of furniture, provision of crockery and other articles in the rooms, as well as a reduced composition of the many small payments and gratuities which in former times were payable, and which, though they may be increased by liberality, may not be diminished by economy. Even subscriptions to College clubs, though not charged by the College, are now often paid through battels; and except expenditure for books, clothes, travelling and such amusements as are not provided by College clubs, the only absolutely necessary expenses of the economical man, beside his battels, would seem to be his fees for examinations and degrees and the terminal gratuity to his servant.

The total expenses, excluding initial expenses, for residence at the University, and also for keep, &c., during the three vacations, would be about £400 per annum. The expenses of non-collegiate students would be correspondingly less—probably a sum of about £350 inclusive.

Some Societies require, as a condition of admission, that Oriental students should either have their allowance sent through the Delegacy for Oriental Students, or should deposit with that Delegacy a sum which, with caution money, will be enough for a term's bill.

## UNIVERSITY AND COLLEGE TEACHING.

Teaching is given partly by University professors, readers, lecturers and demonstrators, and partly by the more numerous body of College tutors and lecturers; it consists of lectures, more or less formal, delivered to small or large audiences, belonging to one or to several Colleges, and also of tuition—private and informal teaching—adapted to the needs of each pupil. The tuition supplied by the Colleges is now very complete, and unless an undergraduate happens to require teaching in some subject not very commonly studied, he will not, if he is of average ability, need the assistance of a private tutor. Occasionally, however, a candidate for Honours may, for one reason or another, find it advantageous to read for a term or two terms with someone who has given special attention to some part of the subject which the candidate is offering for an examination. As a rule, only those who, from defective training or some other causes, fail to reach the average standard of attainment, require more individual help than the College organisation provides. For instance, Colleges will not undertake to teach elementary French, which an English undergraduate has learnt at school. Such a student, before he selects a private tutor, should consult his College tutor, whose opinion will be a safer guide than mere report. Some private tutors form small classes, the fee for which varies with the tutor and with the subject of study.

## Degrees and Examinations.

## B.A. (HONOURS AND PASS).

Candidates for the degree of B.A. are required—

(a) to pass three examinations:—

- (1) Responsions (for full particulars of which see pages 26-27), to be passed **before** admission;
- (2) the First Public Examination, to be passed by the end of the first year;
- (3) the Second Public Examination, at the end of the third year; and

(b) to keep nine terms—three academical years—by residence.

*The First Public Examination.*—This consists of one of the following parts:—

- (a) Honour Classical Moderations.
- (b) Honour Mathematical Moderations.
- (c) Honour Moderations in Natural Science.
- (d) Pass Moderations.
- (e) Law Moderations.
- (f) The Preliminary Examination in Natural Science.
- (g) The Preliminary Examination in Agriculture and Geography.
- (h) The Preliminary Examination in Forestry.

In Pass Moderations the necessary four subjects include two languages chosen from Latin, Greek, French, German, Old English, of which one must be either Latin or Greek. But a candidate who is an Indian student, or is qualified to become an Indian student, or who has received the necessary permission of the Vice-Chancellor and Proctors, shall be permitted to offer as a substitute for Greek either (1) French or (2) the English language, provided that every candidate who offers the English language shall be required to satisfy the Moderators in English composition, or (3) (at the examinations held in Hilary and Trinity terms) Sanskrit or Arabic or Persian. The examination is held at the end of each term, that is, three times a year.

NOTES.—(1) It is possible for a student of Indian parentage to offer a substitute for one, but only for one, of the languages prescribed in the Statutes. Instead of Greek he may offer either English (special books and composition) or Sanskrit or Arabic or Persian; therefore he must offer either Latin or French or German or Old English, and usually an Indian candidate will offer French.

(2) The schedule of books prescribed for the subject "English language" will probably be revised, therefore students must be careful to enquire what they are, as soon as they have been accepted for admission.

(3) The examination in the necessary languages comprises translation from one or more books specially prepared, with translation from unprepared passages.

Law Moderations include (1) Roman Law, (2) Criminal Law, (3) Constitutional Law and its history, (4) the history of the Judicial system in England. Under the first heading, one of the papers is on the prescribed Latin texts. The examination is held in June and September.

An Indian Senior Student is exempted from all parts of the First Public Examination, unless he is studying Agriculture or Forestry.

*Second Public Examination.*—This examination consists of a Pass School and an Honours School.

(a) *Pass School.*—The Pass School contains many "Groups" of subjects, and candidates taking it are required to pass in three of these, of which one must be a language subject other than English; but, ordinarily, Colleges do not accept Indian candidates who wish to take a pass degree, except in Agriculture or Forestry (usually probationers for Government service).

(b) *Honours School.*—The Honours School includes 26 subjects, a class in one of which is sufficient to enable a candidate to obtain an honours B.A. degree. The examinations are held once a year in the summer term. These include:—

- (1) *Literæ Humaniores* (Greek and Latin language, History and Philosophy).
- (2) Mathematics.

## (3) Natural Science, including—

- |                        |                         |
|------------------------|-------------------------|
| (a) Physics,           | (e) Botany,             |
| (b) Chemistry,         | (f) Geology,            |
| (c) Animal Physiology, | (g) Astronomy,          |
| (d) Zoology,           | (h) Engineering Science |

Students in Chemistry must also pass a qualifying examination in German, consisting of unprepared translation from German works on Chemistry.

## (4) Jurisprudence.

## (5) Modern History.

## (6) Theology.

## (7) Oriental Studies, including—

- |               |               |
|---------------|---------------|
| (a) Sanskrit, | (d) Persian   |
| (b) Arabic,   | (e) Egyptian, |
| (c) Hebrew,   |               |

with a secondary language and a special subject in each case.

## (8) English Language and Literature (including Philology and Anglo-Saxon).

## (9) Modern Languages, including—

- |              |                               |
|--------------|-------------------------------|
| (a) French,  | (d) Spanish,                  |
| (b) German,  | (e) Russian,                  |
| (c) Italian, | (f) Mediæval and Modern Greek |

## (10) Philosophy, Politics and Economics.

## (11) Geography.

It should be noted that knowledge of Latin is necessary for the study of Law, and of French for the study of Modern History. An essential part of the Honours School of Philosophy, Politics, and Economics (sometimes called Modern Greats) is a good knowledge of two modern languages, the alternatives being French, German, Italian, and Spanish, but either French or German must be one. The course in Engineering at Oxford is not suited to the requirements of Indian students.

The fees payable for examination are :—

Final Honours School in subject other than Chemistry,  
Part II., £5.

Final Honours School, in Chemistry, Part II., £2.

## EXEMPTIONS

Exemption from any portion of the prescribed courses or period of residence for the B.A. degree is only granted to students of Senior or Junior status

Junior Status.\*

*Any Student of an Indian University who shall have pursued at that University a course of study prescribed by it and extending*

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\* Applicants who count on getting either Junior or Senior status should send to the Secretary to the Delegacy for Oriental Students as early as possible the details of their degrees together with their degree certificates and evidence of the length of their course of study at their Indian University, for the decision of the Hebdomadal Council

over two years at the least, and shall have obtained the Degree of Bachelor of Arts or Bachelor of Science at that University, may be admitted to the status and privileges of a Junior Student, provided that such Degree and such University shall have been approved by the Hebdomadal Council. No Degree shall be approved for the purposes of this clause which does not include the study of English and, in addition, of two of the following languages, Latin, Greek, French, German, Sanskrit, Arabic, Persian, Pali, Classical Chinese, of which two either Latin or Greek or French or German must be one.

*The status and privileges of a Junior Student shall be as follows:—*

- (a) *The Term in which he is matriculated shall be reckoned for the purposes of any provisions respecting the standing of members of the University, as the fourth Term from his matriculation.*
- (b) *A Junior Student shall not be required to pass Responsions.*
- (c) *A Junior Student shall be entitled to supplicate for the Degree of Bachelor of Arts if he shall have passed the First Public Examination and kept statutable residence for six Terms, and either—*

*(1) shall have obtained a place, or his name shall have been placed as regrotat, in the Class List of an Honour School of the Second Public Examination; or*

*(2) shall have satisfied the Examiners in the Second Public Examination in the Final Honour School of Natural Science in Chemistry, Part I; or*

*(3) shall have satisfied the Examiners in the Second Public Examination in the Final School of Agriculture or of Forestry; or*

*(4) having obtained Honours in the First Public Examination, shall have passed the Second Public Examination; or*

*(5) shall have shown sufficient merit in the examination for an honour school, though over-standing for classification.*

The effect of these Regulations is that a Junior Student is not required to pass Responsions and may take his degree in two years, though in practice it is usually found difficult to cover the work in this period, especially if the necessary modern European language such as French is not known. He must take honours in the First or Second Public Examination, or take the School of Agriculture or Forestry.

#### Senior status.\*

*Any person who has obtained a Degree at a University in the British Dominions or Colonies or in India or in Great Britain and Northern Ireland, or at a Foreign University, such Degree and such University having been approved by the Hebdomadal Council, may be admitted to the status and privileges of a Senior Student;*

\* Applicants who count on getting either Junior or Senior status should send to the Secretary to the Delegacy for Oriental Students as early as possible the details of their degrees together with their degree certificates and evidence of the length of their course of study at their Indian University, for the decision of the Hebdomadal Council.

*provided that he shall have pursued at that University, or, should the Hebdomadal Council in his case so approve, at more than one University, a course of study extending over three years at the least.*

*Note.*—No degree will be approved for this purpose unless the course of study leading to it has extended to three years subsequent to the Intermediate Examination.

*The status and privileges of a Senior Student shall be as follows:—*

- (a) *The Term in which he is matriculated shall be reckoned, for the purposes of any provisions respecting the standing of members of the University, as the fourth Term from his matriculation.*
- (b) *A Senior Student shall not be required to pass Responsions or, except as hereinafter provided, any part of the First Public Examination as a condition for the Degree of Bachelor of Arts.*
- (c) *A Senior Student shall be entitled to supplicate for the Degree of Bachelor of Arts if he shall have kept statutable residence for six Terms, and either (i) shall have obtained a place, or his name shall have been placed as agrotat in the Class List of an Honour School of the Second Public Examination; or (ii) shall have satisfied the Examiners in the Second Public Examination in the Final Honour School of Natural Science in Chemistry, Part I; or (iii) shall have passed the Preliminary Examination in Agriculture and Geography or in Forestry, and the Final Examination in the School of Agriculture or of Forestry; or (iv) shall have shown sufficient merit in the examination for an honour school, though over-standing for classification.*

The effect of these Regulations is that a Senior Student is not required to pass Responsions or (unless he proposes to study for the Final School of Agriculture or Forestry) any part of the First Public Examination. He can take his degree in two years, but must study either for an *honours* degree (which may be Chemistry, Part I), or for Agriculture or Forestry. He can enter for the diploma in Agriculture or Forestry, and for the examination for the diploma in Education in one year instead of two years (but is not excused from the practical training in a school).

**Important.**—It should be noted that (1) no list of the approved degrees is published. Each case is considered on receipt of full particulars, and it is therefore specially necessary that application should be sent early to give time for consideration; in most cases a first class is required, in some cases a second class; (2) in order to obtain these exemptions it is necessary that applicants should not only have passed the examination for their degree in India, but have obtained the degree, or produce a certificate that the degree will be conferred at the next Convocation. The certificate of the degree must be produced in Oxford before matriculation, if possible; (3) a candidate should send a certificate from the Registrar of his Indian University, showing the length of time he has been a member of that University.



## DEGREES IN THEOLOGY, LAW AND MEDICINE.

(1) *Bachelor of Divinity (B.D.)*.—Candidates for this degree must be either Masters of Arts of the University of Oxford or graduates of some other University and must (a) pass a qualifying examination; (b) present a thesis on some subject in Christian Theology.

(2) *Degree of Bachelor of Civil Law (B.C.L.)*.—The examination for this degree is open either (a) to Bachelors of Arts of Oxford University, or (b) under certain conditions to graduates in Arts, Philosophy, Science or Law of other Universities. A candidate for this degree must be able to satisfy the Board of the Faculty of Law that he has sufficient knowledge of Latin to enable him to read with profit the prescribed texts in Roman Law in the original.

If successful in the examination the former class become eligible for the degree when they have completed 12 terms from their matriculation, and the latter when they have kept statutory residence for at least six terms.

The Board will determine whether a candidate is well qualified to pursue a course of advanced legal study. Applications are not received from a candidate direct, but must be sent by his prospective College or other Society. Therefore, the evidence of qualification must be enough to justify the Society in sending it.

It should be noted that this degree is postgraduate, of a definitely higher standard than the honours B.A. in Jurisprudence, and presuming that the student has already worked on the lines of the syllabus for the B.A. The regulations do not prescribe text-books, and the reason for this is that the examination covers the whole field in each of the subjects. Before applying for admission as a B.C.L. student, a candidate is advised to read the regulations carefully.

Candidates admitted as graduates of other Universities pay a fee of £5 on admission. The fee for the examination is £5 for graduates of Oxford University and £10 for other candidates, and that for the degree is £8.

(3) *Degree of Bachelor of Medicine (B.M.)*.—This degree is open only to Bachelors of Arts (of Oxford) who have passed certain University examinations in Medicine and Natural Science. The total period of study for the degree, including the scientific subjects studied in the Arts course, is at least six years, of which three are usually spent at the medical schools of the great London Hospitals in preparation for the more strictly professional subjects of the Second B.M. Examination. A senior student can reduce this to a minimum of five years; he may, if properly qualified, be exempted from the preliminary examination in Chemistry, Physics and Biology, but no exemption can be granted from any other examination which forms part of the medical course.

## RESEARCH DEGREES.

(1) *Bachelor of Letters (B.Litt.)*.—Application is made by a candidate through the Head or a tutor of the Society to which he will belong, to be admitted as a probationer student to a course of special study preparatory to research. The applicant must state the branch of study which he proposes to pursue and give evidence of his fitness to undertake a course of special study therein and either (a) have passed the examinations required for the degree of B.A. at Oxford or have obtained a Diploma with distinction at Oxford, or (b) have taken a degree at some other University, such degree and such University having been approved by the Hebdomadal Council. In *exceptional* cases a student may be admitted who does not comply with these conditions, if he can satisfy the Board of the Faculty concerned that he is qualified to enter on a course of special study and research, which can profitably be pursued under the superintendence of the Board. These exceptional cases seldom apply to Indian students.

At any time before the end of his third term the probationer student will, after consultation with his supervisor, submit the subject of his thesis for the approval of the Board. After a further period of not less than six months the thesis may be submitted, but six terms of residence as a member of the University are required before the degree can be obtained.

The fees are £5 on admission, £5 for every term of his course of study, £5 for examination, £7 10s. on taking the degree.

(2) *Bachelor of Science (B.Sc.)*.—An applicant for admission as a student for this Degree must state in general terms the subject which he proposes to investigate and give evidence of his fitness to begin research therein, and must either have (a) passed the examinations for the degree of B.A. at Oxford, or (b) taken a degree at some other University, such degree and such University having been approved by the Hebdomadal Council. The student is, however, not admitted as a probationer. Other students may be admitted in the *exceptional* cases described in the regulations for B.Litt. A supervisor will direct his work, but will not give systematic instruction.

The fees are £5 on admission, £3 for every term of his course of research, £5 for examination, £7 10s. on taking the degree.

(3) *Doctor of Philosophy (D.Phil.)*.—This is a research degree of higher standard than B.Litt. or B.Sc. It is open to—

- (a) any member of the University of Oxford who has been placed in the first class of a Final Honour School, or who has obtained a certificate enabling him to supplicate for the Degree of B.Litt. or B.Sc. ;
- (b) any B.A. or M.A. of the University of Oxford who has satisfied the Committee for Advanced Studies of his fitness to receive the status of advanced student ;

- (c) a graduate of another University if he can produce evidence of special fitness for the Status of Advanced Student, in a manner satisfactory both to the Committee for Advanced Studies and to the Board of the Faculty concerned.

A rule has been made that students from other Universities shall ordinarily take the degree of B.Litt. or B.Sc. first and thus come under class (a) above. Two years' residence are required before a student can obtain the degree of B.Litt. or B.Sc., but the thesis can be presented and the Certificate obtained after one year, and a candidate who is then accepted as an Advanced Student would complete his second year's residence while working for the D.Phil., and it would thus be possible to finish the course for the D.Phil. by the end of the third year.

The Committee for Advanced Studies have laid down that applications under classes (b) or (c) above cannot as a rule be considered unless they are accompanied both by evidence that the applicants have served an apprenticeship in research approximately equal in value to that implied by the Oxford B.Litt. or B.Sc. Certificate, and also by the testimony of recognised authorities that they are capable of successfully undertaking advanced research.

The work done by the student must result in an original contribution to knowledge, set forth in such a manner as to be fit for publication. The minimum course of research is six terms, the maximum 12 terms.

The applicant must apply through the Head or a tutor of the Society to which he will belong, and must state the branch of study within which his research will lie, and produce evidence of his fitness to receive the status of advanced student.

The fees are £5 on admission, £5 for every term of his course of research, £10 for examination, £15 on taking the degree.

#### DIPLOMAS AND CERTIFICATES.

The qualifications of a diploma student are briefly that he should be (1) over 25 years of age and of good character, or (2) a member of the University of Oxford or a graduate of a University approved by the Hebdomadal Council; and that he should possess certain preliminary qualifications. For many of the diplomas he need not become a member of Oxford University. But in the case of the diplomas in Education, Forestry, Rural Economy and Theology, only those candidates from India are accepted who are, or who become, members of Oxford University, whether they are over 25 years of age or not. Indian candidates are advised that it is very difficult to obtain admission in order to study for a diploma, because colleges and St. Catherine's Society (the non-collegiate body) prefer men who are working for a degree.

The entries in the column of fees do not include fees for admission (if any) and tuition.

Diploma.	Length of Course.	Examination and Diploma Fees.	Preliminary Qualifications required
Geography (Certificate) -	2 terms -	£ s. d. 2 10 0	} Good general education.
Geography (Diploma) -	1 year <i>plus</i> vacation course.	6 0 0	
Education -	1 year <i>plus</i> practical work in an approved school, for Senior Students.	2 10 0	Senior standing
Economics and Political Science.	1 year -	3 0 0	} Good general education and qualification to study Economics.
Certificate of Training for Social Work.	—	1 0 0	
Anthropology -	1 year -	3 0 0	} Good general education.
Anthropology (Certificate in).	2 terms -	2 0 0	
Forestry -	1 year -	2 10 0	An approved degree or diploma in Forestry or Senior standing.
Classical Archaeology -	1 year -	2 10 0	Sufficient knowledge of Latin and Greek.
Rural Economy -	1 year -	2 10 0	An approved degree or diploma in Agriculture or Senior standing.
Comparative Philology -	1 year -	3 0 0	Degree of recognised University and evidence of knowledge of the subject
Theology -	1 year -	4 0 0	Senior standing or must satisfy the Board of the Faculty of Theology.
Ophthalmology -	2 months -	15 0 0 (10 0 0 to members of the University).	Registered medical qualification and certificate of 12 months' clinical work in an approved Ophthalmic Hospital (see also p 237).

GENERAL NOTE.—The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Secretary to the Delegacy for Oriental Students, Indian Institute, Oxford.

## Oxford Colleges for Women.

### GENERAL NOTE.

Women may be admitted as members of one of the five Societies of Women Students at Oxford: Lady Margaret Hall, Somerville College, St. Hugh's College, St. Hilda's College, or the Society of Oxford Home-Students. They then become members of the University, and the conditions of entering for all examinations of the University are the same as for men students.

Students are advised to apply in all cases through the University Bureau or Local Advisory Committee.

As the accommodation for women students at Oxford is limited and as there is very keen competition for places, it is desirable that applications from candidates should reach the authorities of the Society which they desire to join at least a year before the term in which they seek admission. October is the normal date for entry. The places are allocated on the results of a competitive entrance examination. It is usually possible for the papers to be sent out to India, if satisfactory invigilation can be arranged, and if application is made sufficiently long beforehand.

Each of the five Societies holds an entrance examination, which takes place once a year, in either December, January, or March. Particulars of the date for each College in each year can be obtained from the Principal of the College at which admission is desired (or from the Secretary to the Delegacy for Oriental Students). But it is advisable that forms of entrance, together with the examination fee, should be returned by October, in the year preceding admission. The entrance examination usually comprises (1) an essay, (2) a general paper, (3) unprepared translation from one or more of the languages Latin, Greek, French, German, Italian, Spanish, (4) in some cases a paper on the subject which the candidate intends to read for an honours degree.

The special attention of women students is drawn to the exemptions for which Indian graduates are eligible (*see* pages 26-27 and 137-139). Indian women students who are eligible for the status of Senior Student are sometimes exempted from the College Entrance Examination. Application should be made to the Principal, with full details of the candidate's examinations in India.

The fees and dues payable to the University are additional to the charges of the Societies and amount to £5 Matriculation fee, £1 10s. Terminal dues, and a total of £9 9s. to £10 10s. for examination fees.

In each case the College charge for board and lodging, tuition, lectures, &c., is about £150 a year. If the cost of dress, travelling and other personal expenses be added, the total expenses of a woman student will be much the same as for a man. Further information may be obtained from the Principal of the College or Society concerned.

## University of Reading.

Unless it is otherwise so stated, a student entering on any course must have passed the Matriculation Examination of the University of London or of the Joint Board of the Universities of Manchester, Liverpool, Leeds, Sheffield, and Birmingham, or have qualified for exemption therefrom.

For particulars of the Matriculation Examinations, *see* pages 12-18 and 19-25.

Registration Fee, £2 per session.

Course.	Period of Study.	Tuition Fees (per session)	Examination Fees.	Degree Fees.
<b>DEGREES.</b>				
B.A. (Pass or Honours) (a) -	3 years -	£ s. d. 30 0 0	£ s. d. 5 5 0	£ s. d. 3 3 0
B.Sc. or B.Sc. (Agriculture) (Pass) (b).	3 years -	35 0 0	$\left. \begin{array}{l} 5 \text{ } 5 \text{ } 0 \\ \text{or} \\ 6 \text{ } 6 \text{ } 0 \end{array} \right\}$	$\left. \begin{array}{l} 3 \text{ } 3 \text{ } 0 \\ 3 \text{ } 3 \text{ } 0 \end{array} \right\}$
B.Sc. (Agriculture) (Honours) (c) -	4 years -	35 0 0	5 5 0	3 3 0
B.Sc. (Dairying or Horticulture) (Pass degree only) (d).	3 years -	35 0 0	$\left. \begin{array}{l} 5 \text{ } 5 \text{ } 0 \\ \text{or} \\ 6 \text{ } 6 \text{ } 0 \end{array} \right\}$	$\left. \begin{array}{l} 3 \text{ } 3 \text{ } 0 \\ 3 \text{ } 3 \text{ } 0 \end{array} \right\}$
First M.B., B.S. (London) -	1 year -	35 0 0	6 6 0	—
Second M.B., B.S., Part I. (London)	1 year -	15 0 0	3 3 0	—
<b>DIPLOMAS.</b>				
Education -	1 year -	37 0 0	4 4 0	—
Commerce -	2 years -	25 0 0	4 4 0	—
Agriculture or Horticulture (d) -	2 years -	30 0 0	4 4 0	—
Dairying (d) -	2 years -	$\left. \begin{array}{l} 35 \text{ (1st session).} \\ 41 \text{ (2nd session).} \end{array} \right\}$	4 4 0	—
Landscape Architecture (d) -	3 years -	30 0 0	6 6 0	—
Agriculture (Certificate) (d) -	3 terms -	30 0 0	2 2 0	—
Dairying (Certificate) (d) -	6 months -	21 0 0	2 2 0	—
Horticulture (Certificate) (d) -	35 weeks -	30 0 0	2 2 0	—
Fine Art -	3 years -	18 0 0	2 2 0	—
Music -	3 years -	31 10 0	3 3 0	—
Domestic Subjects -	2 years -	30 0 0	4 4 0	—

### NOTES.

- (a) Honours Schools in Philosophy, Philosophy and English Literature, Psychology, Classics (Latin and Greek), English, French, German, Modern History, Geography, Mathematics, Greek and English Literature, Latin and English Literature.
- (b) Honours Schools in Mathematics, Physics, Chemistry, Botany, Zoology, Geography, Geology.
- (c) Honours Schools in Agricultural Chemistry, Agricultural Botany.
- (d) For further details of this course, *see* pages 329-331.

### HIGHER AND RESEARCH DEGREES.

- M.A., M.Sc. -  $\left\{ \begin{array}{l} \text{Open to graduates of the University of Reading of two years' standing, or to graduates of other Universities on similar conditions, after two years' study at the University and the submission of a thesis.} \end{array} \right.$
- Ph.D. -  $\left\{ \begin{array}{l} \text{Open to graduates of the University of Reading or of other Universities after three years' study and the submission of a thesis.} \end{array} \right.$
- D.Litt., D.Sc. -  $\left\{ \begin{array}{l} \text{Open to graduates of prescribed standing of the University of Reading only.} \end{array} \right.$

### RESEARCH FEES.

A fee not exceeding £7 per session is charged for admission to the laboratories for research.

### STUDENTS' SOCIETIES.

Students' Societies include the Athletic Union and Literary Scientific, Art and Musical Clubs. There are also sectional clubs dealing with French, Agriculture, History, Geography, Commerce and Education.

### HOSTELS.

Students taking full courses of day study are required to reside in a Hall of Residence, unless they reside with their parents or guardians, or unless they hold the written permission of the Vice-Chancellor to reside elsewhere.

#### Men :—

Wantage Hall provides accommodation for 78 men students.

Fee for board and lodging for the session of 30 weeks is £75.

St. Patrick's Hall provides accommodation for 100 men students.

Fee for board and lodging for the session of 30 weeks is £75.

#### Women :—

St. Andrew's Hall provides accommodation for 121 women students.

Wessex Hall provides accommodation for 65 women students.

St. George's Hall provides accommodation for 59 women students.

Ashdown Hall provides accommodation for 35 women students.

*Fees* for board and lodging for the session of 30 weeks at St. Andrew's Hall, Wessex Hall, St. George's Hall, and Ashdown Hall are as follows :—

For a student sharing a double study-bedroom or occupying a single bedroom, £61.

For a student occupying a single study-bedroom, £67.

The foregoing fees for board and lodging do not include charges for personal laundry.

### BOARD AND LODGING.

For students not residing in a Hall of Residence, the cost of board and lodging may be estimated at approximately £2 5s. per week.

The Registrar of the University should, however, be consulted as a list of approved and registered lodgings is kept.

*GENERAL NOTE.*—The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Registrar, The University, Reading.

## Sheffield University.

Unless it is otherwise so stated, a student entering on any course must have passed the Joint Board Matriculation Examination or have been exempted therefrom.

Indian students are required to pass a test in English before admission to the University.

For particulars of the Matriculation Examination of the Joint Board, *see* pages 12-18.

Registration Fees are payable annually (except by students paying a composition fee in the Faculty of Medicine) as follows:—

For degree, diploma in Education and Research courses, £1 5s.

For other diploma courses, £1 1s.

Indian students when accepted are required to pay a registration fee of £1 1s. This fee is deducted from the tuition fees when they actually enter the University. This fee is not returnable.

Course.	Period of Study.	Tuition Fees (per Annum).	Examination Fees.	Degree Fees.
<b>DEGREES.</b>				
B.A. (General or Special) (Hons.) (a).	3 years	*26 13 4	General 4 10 0 *Special Hons. 5 0 0	6 0 0
B.Mus.	3 years	26 13 4	7 0 0	6 0 0
B.Sc. (General or Special) (Hons.) (b).	3 years	35 0 0	5 0 0	6 0 0
M.B., Ch.B.	5½ years	42 0 0	20 0	1 0 0
B.D.S.	5½ years†	1st 5 years. 28 0 0 for 6th year. 80 0 0 1st & 3rd yrs. } 30 0 0 (2nd, 4th, and 5th years.)	18 0 0	1 0 0
LL.B.	3 years	15 15 0	Pass 4 0 0 Hons. 5 0 0	6 0 0
B. Eng.‡	3 years		Pass 4 0 0	6 0 0
B. Eng. Hons.‡	4 years		Hons. 5 0 0	6 0 0
B.Sc. Tech. (including Glass and Fuel).	3 years		Pass 4 0 0	6 0 0
B.Sc. Tech. Hons. Glass	4 years	41 10 0	Hons. 5 0 0	6 0 0
B.Sc. Tech. Hons. Fuel	1 year§		Hons. 3 0 0	5 0 0
B. Met.	3 years		Pass 4 0 0	6 0 0
B. Met. (Hons.)	4 years		Hons. 5 0 0	6 0 0
B. Eng. (Sandwich Course)	4 years	31 5 0	Pass 4 0 0	6 0 0
B. Eng. (Mining) (c)	3 years	41 10 0	Pass 4 0 0	6 0 0
B. Eng. (Mining) Hons. (c)	4 years	41 10 0	Hons. 5 0 0	6 0 0
B. Eng. (Mining) Sandwich Course (d).	4 years	41 10 0 1st year. 31 5 0	Pass 4 0 0	6 0 0
B. Eng. (Mining) Sandwich Course Hons. (d).	5 years	for each remaining year.	Hons. 5 0 0	6 0 0
<b>DIPLOMAS.</b>				
Diploma in Education (e)	1 year	35 0 0	£ s. d. 3 0 0	Diploma Fees. —
Certificate in Architecture (g)	3 years	31 10 0	4 10 0	1 0 0
Diploma in Architecture (g)	5 years	31 10 0	7 10 0	1 0 0
Diploma in Dental Surgery (f)	4 years†	80 0 0 1st & 2nd yrs. 30 0 0 3rd and 4th yrs.	18 0 0	—

\* In Architecture tuition fees are £31 10s. per annum and the examination fees are £7 10s.

† After passing the Pre-registration Examination in Physics and Chemistry.

‡ Civil, Electrical, Mechanical or Combined Electrical and Mechanical.

§ After obtaining the Degree of B.Sc. of this University with special Honours in Physics or Chemistry with Fuel Technology as a subsidiary subject.



Course.	Period of Study.	Tuition Fees (per Annum).	Examination Fees.	Diploma Fees.
<b>DIPLOMAS—cont.</b>				
		£ s. d.	£ s. d.	£ s. d.
	3 years	41 10 0	4 0 0	1 0 0
	3 years	41 10 0	4 0 0	1 0 0
Diploma in Mining (h) (c)	3 years	41 10 0	4 0 0	1 0 0
		41 10 0	4 0 0	
Diploma in Mining (Sandwich Course) (h) (d).	4 years	1st year. 31 5 0 for each remain- ing year.		
Diploma in Glass Tech. (h)	3 years	41 10 0	4 0 0	1 0 0

Higher and Research Degrees.		Examination Fees.	Degree Fees.
			£ s. d.
M.A.	I. <i>Without further residence:—</i>		5 0 0
M.Sc.	The respective Masters' degrees may be conferred upon Bachelors of this University without further residence, but after the presentation of an approved thesis on the following conditions:—	The examination fee for a Master's Degree is £5.	5 0 0
LL.M.			5 0 0
*M. Eng.	(i) Bachelors of Arts of one year's standing (oral examination, and, if required, written examination also).		5 0 0
M.Sc. Tech.	(ii) Bachelors of Science of two years' standing (oral examination also).		5 0 0
M. Met.	(iii) Bachelors of Laws with Honours of one year's standing.		5 0 0
	(iv) Bachelors of *Engineering or of Technical Science of two years' standing who have during those two years pursued the science or practice of Engineering or Technology (oral examination and, if required, written examination also).		
	(v) Bachelors of Metallurgy with Honours of one year's standing (oral examination, and, if required, written examination also).		
	(vi) Bachelors of Metallurgy of three years' standing who for three years have, subsequent to graduation, pursued the science and practice of Metallurgy and presented an approved published thesis.		
	II. <i>With further residence:—</i>		
	Open to approved graduates of Sheffield University (not included in Section I) and to graduates of another University approved by the University of Sheffield in each particular case. Special requirements in each Faculty. Periods of study in the University vary from one to three years. Thesis and examinations.		

\* In each case a candidate for the degree of M.Eng. in Mining must have had not less than three years' experience in an approved mine or mines and have obtained his First Class Colliery Manager's Certificate.

Higher and Research Degrees.		Examina- tion Fees.	Degree Fees.
		£ s. d.	£ s. d.
M.D.	Candidates must have passed the examination for the M.B., Ch.B. degrees at least three years previously, shall present an approved thesis and pass an examination.	10 0 0	5 0 0
Ch.M.	Candidates must have passed the examination for the M.B., Ch.B. degrees at least three years previously, held approved appointments and pass an examination.	6 0 0	5 0 0
M.D.S.	Open to graduates who are of one year's standing from the date of admission to the degree of B.D.S.	6 0 0	5 0 0
Ph.D.	Open to graduates of Sheffield University or other recognised Universities. Course lasts at least two years and an approved thesis must be presented.	7 10 0	10 0 0
		(Sessional fee, £18 Faculties of Arts and Law and the subject of Mathematics; £25 Faculties of Pure Science (except Mathe- matics), Medicine, Engineering and Metallurgy, plus Registration fee, £1 5s.)	
Litt.D.	Open to graduates of the University of	10 0 0	10 0 0
D.Sc.	approved standing. Special research or	10 0 0	10 0 0
D.Eng.	published work must be submitted.	10 0 0	10 0 0
LL.D.		10 0 0	10 0 0
D.Sc. (Tech.)		10 0 0	10 0 0
D.Met.		10 0 0	10 0 0
D.Mus.	Open to Bachelors of not less than five years' standing. An examination and either Compositions or theses.	30 0 0	10 0 0

NOTE.—Particulars of fees for courses of a Master's degree should be obtained from the Registrar.

#### NOTES.

- Honours Schools in Classics, Greek, Latin, English Language and Literature, French, German, Latin and English, Latin and French, Modern Languages and Literatures, History, Mathematics (Pure and Applied), Philosophy, Economics, Architecture, and Geography. Honours may also be awarded on the examination for the General Degree of B.A.
- Special Honours Schools in Mathematics, Physics, Chemistry, Zoology, Botany, Physiology, Geology, Geography. Honours may also be awarded on the examination for the General Degree of B.Sc.
- Full-time course open only to candidates who have had approved practical experience in mines.
- The whole of the first year of the course is taken at the University. In the remaining years students spend six months at the University and six months at a mine.
- Candidates must be graduates of a University of the United Kingdom or possess equivalent qualification.
- Matriculation is not required, but students who have not matriculated must have passed one of the examinations in general education recognised by the General Medical Council (see page 194), and accepted by the University.
- Matriculation not necessary, but special entrance examination or exemption therefrom required. Candidates for the Diploma must have first obtained the Certificate in Architecture.
- Matriculation is not required, but candidates must produce evidence of competence to take the course or pass the special Entrance Examination. Students entering the Associateship Course in Engineering shall only be exempted from the first-year course and examination on condition that they pass at entry an examination in (i) Mathematics and (ii) Physics, unless they can produce evidence that they have passed an examination in these subjects approved by the Faculty. The examination shall be of the standard set for Associateship candidates at the end of the first year.

## EXEMPTIONS.

*Faculty of Arts.*—Graduates in Arts of any University of the United Kingdom, provided they have pursued a course of study for two years at some institution or place of learning recognised by the University, may proceed to the Special Degree of B.A. with Honours or the Degree of B.Mus. after having attended for two years courses of study approved by the University in an Honours School of the Faculty of Arts for the Special B.A. Degree with Honours, or in the Department of Music for the B.Mus. Degree, and satisfied the examiners of this University in the necessary examinations.

*Faculty of Pure Science.*—Students who have passed the Final Examinations of any University of the United Kingdom for the Degree of B.A. in any of the subjects of the Honours Schools of the Faculty of Pure Science, or for the Degree of B.Sc. may, provided they have pursued a course of study for two years at some institution or place of learning recognised by the University, proceed to the Degree of B.Sc. with Honours after having attended for two years courses of study approved by the University in the General Degree course or in an Honours School of the Faculty, and satisfied the examiners of this University in the General Degree examination or the Special Degree examination of an Honours School of the Faculty.

*Faculty of Law.*—Graduates of any University of the United Kingdom, provided they have pursued a course of study for two years at some institution or place of learning recognised by the University, may become candidates for the Final Examination for the degree of LL.B., after having attended an approved course of study at the University for two years, one year having been devoted to the course of study laid down by the Faculty for the Intermediate Examination.

*Faculty of Engineering.*

*Pass Degree.*—Students who have passed the Final Examination of any University of the Empire for the Bachelor's Degree, provided that the subjects of the course taken up to an approved standard include any two of the following, namely, Mathematics, Chemistry, and Physics, and that they have pursued a course of study for two years at some institution or place of learning recognised by the University, may proceed to the ordinary Degree of B.Eng. or B.Sc. Tech., either after having attended the University for one University year or two winter sessions, and in addition spent an approved period upon practical work in some approved works, or after having attended the University for two years, and satisfied the examiners in the subjects of the Final Examination for the ordinary Degree.

[NOTE.—Students who have not taken all three subjects of Mathematics, Physics and Chemistry in their Final examination may be required to show a knowledge up to the Intermediate standard of the University of Sheffield in the subject not taken in the Indian University Final Degree examination.]

Students before entering the final year of the course for the Degree of B.Eng. must satisfy the Examiners in the Intermediate examination of the University of Sheffield in the subject of Engineering Drawing and Design.

Mining students must furnish certificates of having been engaged for at least 15 months upon practical work approved by the Faculty. Of the said 15 months not less than 12 months must have been spent in practical work in some mine or mines approved by the Faculty.

*Honours Degree.*—Students who have passed the Final Examination of any University of the Empire for the Bachelor's Degree, provided that the subjects of the course taken up to an approved standard include Mathematics, Physics, and Chemistry, and that they have pursued a course of study for two years at some institution or place of learning recognised by the University, may proceed to the Degree of B.Eng., with Honours, or the Degree of B.Sc. Tech. with Honours, after having attended an approved Honours course of study for at least two University years or three winter sessions and satisfied the examiners in an Honours School of the Faculty.

Students before entering the final year of the course for the Degree of B.Eng. must satisfy the Examiners in the Intermediate examination of the University of Sheffield in the subject of Engineering Drawing and Design.

In the case of Mining students, candidates must in addition furnish a certificate of having been engaged for at least two years upon practical work in a mine or mines approved by the Faculty.

Candidates for the degree of B.Sc. Tech. with Honours in Fuel Technology must have graduated with Honours in Chemistry or Physics in the University of Sheffield.

#### *Faculty of Metallurgy.*

*Pass Degree.*—Students who have passed the Final Examination of any University of the Empire for a Bachelor's Degree, provided that the subjects of the Final Examination were Chemistry, and either Mathematics or Physics, and that they have pursued a course of study for two years at some institution or place of learning recognised by the University, may proceed to the ordinary Degree of B.Met., after having attended at the University either an approved day course of study for two years or an approved evening course of study for three years, and satisfied the examiners in the Final Examination for the ordinary Degree of B.Met.

*Honours Degree.*—Students who have passed the Final Examination of any University of the Empire for a Bachelor's Degree, provided that the subjects of the Final Examination were Chemistry, and either Mathematics or Physics, and that they have pursued a course of study for two years at some institution or place of learning recognised by the University, and that they have satisfied the Faculty as to their ability to pursue an Honours Course, may proceed to the Degree of B.Met. with Honours, after having attended for two years at the University an approved course of day study and satisfied the examiners in an Honours School of the Faculty.

#### *Faculty of Medicine.*

See page 213.

#### COLLEGE SOCIETIES.

Students taking any of the above courses are required to pay an annual Athletics and Social Subscription of £2 10s.

## HOSTELS.

*Men.*—Stephenson Hall; fees, £90 per session. A new Hall of Residence for men is in course of erection and will be opened in the Spring, 1936.

*Women.*—The University Hall for Women; fees £55 to £66 per session.

## BOARD AND LODGING.

Students desiring to find lodgings in Sheffield should communicate with the Supervisor of Lodgings for University Students, who assists students to find suitable accommodation. For students not residing in a hostel, the cost of board and lodging may be estimated at approximately £1 15. to £2 5s. per week.

*GENERAL NOTE.*—*The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India, and the High Commissioner for India (Education Department) London, or direct from the Registrar, The University, Sheffield, 10.*

## University College of the South-West of England, Exeter.

Unless it is otherwise so stated, a student entering on any course should have passed the Matriculation Examination of the University of London or an examination exempting therefrom.

For particulars of this Matriculation Examination, *see* pages 19-25.

This College provides classes in Arts, Science, Economics, Commerce, Law, Music, Agriculture and Horticulture, for the External Degrees of the University of London, and courses for the training of Elementary and Secondary Teachers, including courses for the Cambridge Teachers' Diploma and the London Teachers' Diploma, and also courses for foreign students studying English.

*Fees.*—Sessional: B.A. and B.Sc. (Econ.) Hons., Pass and Inter., B.Sc. Special Maths. £25. B.Sc. (incl. Horticulture), Special, General and Inter. and Inter. B.Sc. (Agric.), £30. LL.B. Final £13 13s., (if a second or subsequent year) £9 9s.; Inter., £13 13s.; Inter. (Correspondence), £8 8s. Secondary Teacher's Diploma or College Alternative Certificate for Elementary Teachers (private students), £40. Registration, £2.

Terminally: B.Mus., 1st Exam., £6 6s.; Exercise, £7 7s.; Final, £7 7s.; Registration, 2s. 6d. General course for foreign students, £6 6s. Registration, £1.

### HOSTELS.

*Women.*—Hope Hall, Lopes Hall and Sandford Hall provide accommodation for 154 women students. Session fee is £60-£63.

*Men.*—Mardon Hall, Kilmore Hall and Reed Hall provide accommodation for 198 men. Sessional Fee, £63-£73.

Students not living with parents or guardians are required to reside in one of the Halls attached to the College.

*GENERAL NOTE.*—*The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Registrar, University College, Exeter.*

## University College of Hull.

The College provides courses in Arts, Science, Economics, Commerce and Law for the External Degrees of the University of London.

Courses are provided for the Diplomas in Letters, in Industrial Administration and in Aeronautics granted by the College, and for the Certificate in Letters granted by the College. The Diploma in Aeronautics may be granted after a two years' course of study in the College in Aeronautics. Normally students will only be admitted to the course after they have completed two years in the workshops of an approved engineering firm; in special cases candidates who are graduates in Engineering of a British University or who in special cases are holders of approved diplomas other than degrees may be admitted direct to the second year of the course provided that they satisfy the Board of the Faculty of Aeronautics.

Training is provided for graduates intending to teach in secondary and other higher schools. The College is recognised by the University of Cambridge Teachers' Training Syndicate and a course is provided for the Certificate in Education of that body.

Instruction is also given in the subjects of the examinations of the Law Society, the examination for Call to the Bar and the First Medical Examination.

Courses in preparation for certain of the Diplomas issued by the University of London will be offered if there is a sufficient demand.

For conditions of admission to degree courses, see University of London, pages 19-25 and 70-78.

*Fees.*—The sessional fee is £21 for courses in Arts, Economics and Commerce, £25 in Science, £14 14s. for courses for the Intermediate or Final LL.B., £12 12s. for the examinations of the Law Society.

	£	s.	d.
Registration - - - - -	1	0	0
Students' Union - - - - -	2	2	0
Halls of Residence :—			
Women: Thwaite Hall } Sessional fee	60	0	0
Men: Needler Hall }			

All students in regular attendance not living with their parents or guardians are required to reside in Hall, unless special permission to the contrary is given.

*GENERAL NOTE.*—The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India and the High Commissioner for India (Education Department), London, or direct from the Registrar, University College, Hull.

## University College, Leicester.

This College offers full preparation in Arts, Science, Commerce and Law for the External Degrees of the University of London.

It also provides courses for the first Medical Examination and for the first part of the second examination for the Medicine Degree, and awards a Diploma in Commerce.

The Board of Education has recently recognised a One-year Post-graduate Course for the Training of Teachers at this College.

### Fees:—

For courses for Arts or Science Degrees, £20 per session.

For evening course for Commerce Degree, £5 5s. per session.

For courses for the LL.B. Degree or Solicitors' Examinations, £12 12s. each for the Intermediate and Final Courses except where the students take both courses, when the total fee is £18 18s.

For the Postgraduate Teacher Training Course:—

Students recognised by the Board of Education, £10.

Private students, £45.

### HOSTEL FOR WOMEN STUDENTS.

Fees for residence in Women Students' Hostel:—

Undergraduate students, £65 per annum.

Postgraduate students recognised by the Board of Education, £35 per annum.

For conditions of admission to Degree Courses, see University of London, pages 19-25 and 70-78.

*GENERAL NOTE.—The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Registrar, University College, Leicester.*



## University College, Nottingham.

The College prepares students for the Intermediate, Final and Higher External Degree Examinations of the University of London in Arts, Divinity, Music, Economics, Commerce, Law, Pure Science, Pharmacy, Agriculture and Horticulture (in conjunction with the Midland Agricultural College), Engineering, Mining and the First Examination for Medical Degrees; for College Diplomas in Geography, Music, Commerce, Economics, Social Study, Adult Education, Engineering, Mining and Textiles; for the Certificate of Proficiency in the Theory and Practice of Education granted by the University of Cambridge; for the Associateship Examinations of the Institutes of Chemistry and Physics; and for the Pharmaceutical Society's Examinations.

Students who wish to follow a course leading to a degree must have passed or gained exemption from the University of London Matriculation Examination.

For particulars of this Matriculation Examination, *see* pages 19-25.

*See also* pages 70-78.

Registration Fee, £1.

Course.	Period of Study.	Tuition Fee per Session.
<b>DEGREES.</b>		
		£ s. d.
B.A. (General or Honours)	3 years	25 4 0
Mus.B.	"	25 4 0
B.D.	"	25 4 0
B.Sc. Economics	"	25 4 0
LL.B.	"	12 12 0
B.Sc. (General or Special)	"	31 10 0
B.Sc. Special (Mathematics or Geography)	"	25 4 0
First M.B.	1 year	31 10 0
B.Pharm.	3 years	31 10 0
B.Sc. Mining	"	31 10 0
B.Sc. Engineering	"	31 10 0
<b>DIPLOMAS, &amp;c.</b>		
Secondary Teachers' Certificate (University of Cambridge (h).	1 year	25 4 0
Geography (a) (c)	2 years	25 4 0
Commerce (a) (b)	3 years	25 4 0
Commerce (with Science subject) (a) (b)	"	28 7 0
Economics (a) (b)	"	25 4 0
Social Study (a) (e)	2 years	25 4 0
Associateship of the Institute of Chemistry	4 years	31 10 0
Associateship of the Institute of Physics	"	31 10 0
Diploma of the Pharmaceutical Society	9 months	30 0 0
Adult Education (a) (g)	1 year	12 12 0
Engineering (a) (d) (f)	3 years	31 10 0
Electrical Engineering (a) (d) (f)	"	31 10 0
Mining (a) (d)	"	21 0 0
Fuel Technology (a) (d)	"	31 10 0
Textiles (a) (d) (f)	"	31 10 0
Textiles Higher Diploma (a) (d)	2 years	31 10 0
	3 years	31 10 0

## HIGHER DEGREES.

Fees for postgraduate study are as follows :—

M.A.	-	-	-	-	£9 9s. per session.
M.Sc. Economics	-	-	-	-	£9 9s. „
M.Sc.	-	-	-	-	£15 15s. „
Ph.D.	-	-	-	-	£15 15s. „

## NOTES.

- (a) College Diploma Courses.
- (b) Students desirous of taking these Diplomas must have attained a standard of education equal to the London Matriculation, but need not necessarily have passed it.
- (c) Students must have passed the Matriculation or its equivalent.
- (d) Students are required to pass an Entrance Examination in English Composition, Arithmetic, Algebra and Theoretical Geometry, or give evidence of having passed an equivalent examination.
- (e) Open to students of good general education.
- (f) A part-time course can also be arranged.
- (g) Open to graduates with a good Honours Degree.
- (h) Open to graduates only.

## COLLEGE SOCIETIES.

£1 10s. is payable every session by day students as a combined union and sports fee.

## RESIDENCE.

Students can live either in hostels, of which there are two for men and one for women, or in registered lodgings. Fees for the hostels are £65 to £70 per session (inclusive), while the cost of board and lodging may be estimated at £1 15s. to £2 5s. per week.

Mr. H. G. Green, M.A., Senior Lecturer in the Mathematics Department of the College, acts as "Adviser for Oriental Students." He will be glad to advise and assist Indian students who wish to consult him.

GENERAL NOTE.—*The above general particulars should be verified in each case, and fuller information can be obtained either through the Registrar or the Local Advisory Committee in India, and the Registrar for India (Education Department), London, or direct from the Registrar, University College, Nottingham.*

## University College, Southampton.

This College provides classes in Arts, Science, Law and Engineering for the External Degrees of the University of London; a Commercial Course for the External B.Sc. (Econ.) and B. and M. Com. The College has a Department of Music and a Department for Secondary Teachers and prepares students for the Cambridge Teachers' Certificate and the London Teachers' Diploma. It awards a special Diploma in English for foreign students.

For conditions of admission to Degree Courses, *see* University of London, pages 19-25 and 70-78.

*Fees.*—The sessional fee is £25 for Courses in Arts, Commerce and Music, £32 for Courses in Science or in Engineering.

### HALLS OF RESIDENCE FOR MEN.

South Stoneham House, fees £68 to £73 per session.

New Hall, fees £75 per session.

### RESIDENCE.

Students not residing with their parents or guardian in this country are obliged to reside in one of the Halls of Residence.

*GENERAL NOTE.*—*The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India and the High Commissioner for India (Education Department), London, or direct from the Registrar, University College, Southampton.*

## Selly Oak Colleges, Birmingham.

The Selly Oak Colleges, which consist of five affiliated Colleges (Woodbrooke, Kingsmead, Westhill, Fircroft and Carey Hall) and four other Colleges (College of the Ascension, Avoncroft, Y.W.C.A. and Overdale), provide, among other courses, a course for the Secondary Teachers' Certificate of the University of Cambridge, a Diploma Course in Social Study, a course for the National Froebel Union's Certificate, a course on International Studies, a course leading to a Diploma in Religious Education, and a course specially intended for educationists and missionary teachers in Africa and the East. (This course has been recognised by the Colonial Office and by the Provincial Governments of India.)

The Department of Education, which prepares students for the Secondary Teachers' Certificate of the University of Cambridge, the Selly Oak Certificate in Education, and the Diploma in Religious Education, can also make arrangements for a teaching course for students not undertaking a full Certificate Course.

*Fees.*—£105–£120 per session of three terms (resident)

The Department of Social Study in co-operation with the University of Birmingham has a two-year course of systematic instruction combined with practical training for those who propose to engage in Public and Social Services.

*Fees.*—£105–£120 per session of three terms (resident).

The National Froebel Union's Certificate course covers three academic years (*see* pages 393–396) and is taken at Westhill College.

*Fees.*—£114 per session of three terms (resident).

The Course on International Studies is taken at Woodbrooke.

*Fees.*—£105 per session of three terms (resident).

No separate halls of residence. The Colleges are residential and the fees inclusive.

*GENERAL NOTE.*—*The above general particulars should be verified in each case, and full information can be obtained either through the University Bureau or the Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Registrar, Selly Oak Colleges, Birmingham.*

## University of Wales.

The University of Wales is a federal university consisting of four constituent Colleges, a School of Medicine, three Associated Theological Colleges and two Schools of Theology. The constituent Colleges are the following:—

University College of Wales, Aberystwyth.

University College of North Wales, Bangor.

University College of South Wales and Monmouthshire, Cardiff.

University College of Swansea.

Degrees are awarded in the Faculties of Arts, Science, Rural Science, Technology, Music, Law, Medicine and Theology. The courses for the M.B., B.Ch., are of six years' duration. The first year's course may be pursued at any of the constituent Colleges of the University, the second and third years' courses may be pursued at the University College of South Wales and Monmouthshire only. The fourth, fifth and sixth years' courses are provided at the Welsh National School of Medicine, which is located at Cardiff. Candidature for the degree of B.D. is limited to persons who have already qualified for a degree in the Faculty of Arts, or of Science or of Law of the University of Wales, or of an approved University.

For details of the courses provided, *see* under the various Colleges or Welsh National School of Medicine.

Students who hold the Intermediate Examination certificate of an approved Indian University are exempted from the Matriculation Examination of the University of Wales, and may pursue a degree scheme of study in the University, provided they are certified by a constituent College as possessing sufficient knowledge of English to profit by the degree scheme.

Graduates of an approved Indian University may enter upon a scheme of research or advanced study in one of the constituent Colleges with a view to obtaining the degree of Magister or the degree of Philosophie Doctor in the University, without having first to qualify for the Degree of Baccalaureus.

Hitherto Indian students holding a Diploma of an Agricultural College in India have not been granted any concessions, but the University authorities are prepared to consider individual applications from such students for exemption from the Matriculation Examination.

The University awards a Diploma in Education, for which a year's training in one of the constituent Colleges subsequent to graduation is required.

The University awards a Diploma in Public Health and a Tuberculous Diseases Diploma. Only men and women holding registrable medical qualifications are eligible as candidates for these diplomas. Courses of study to qualify for them can be taken at the Welsh National School of Medicine, Cardiff.

The University awards Diplomas in Agricultural Science and in Forestry. Candidature for these Diplomas is confined to graduates of the University or to persons who hold a qualification deemed equivalent to a degree of the University. The scheme of special study or research is of one year's duration in a constituent College of the University.

The University awards a Diploma in Theology. The scheme of study is of three years' duration, and must be pursued at one of the Associated Theological Colleges or Schools of Theology.

In addition to the diplomas and certificates awarded by the University, the constituent Colleges award, in certain departments, diplomas and certificates. The conditions of candidature for these may be obtained from the Registrars of the several Colleges.

**DEGREES AWARDED BY THE UNIVERSITY OF WALES, LENGTH OF COURSE,  
AND EXAMINATION FEES**

Course.	Period of Study. Minimum.	Examination Fees.*
<b>DEGREES.</b>		
B.A., B.Sc. (a) (b), B.Tech. or LL.B	3 years (c) -	£ s. d 6 15 0 for Pass degree
M.B., B.Ch. (d) - - -	6 years -	{ 7 15 0 for Honours degree. 6 15 0 (1st 3 years). 16 10 0 (2nd 3 years).
<b>DIPLOMAS.</b>		
Tuberculous Diseases Diploma (e)	—	10 10 0
Diploma in Public Health (f) -	12 months -	12 12 0
Teacher's Diploma (g) -	1 year -	4 4 0
Diploma in Agricultural Science or in Forestry (h).	1 year -	5 0 0
Diploma in Theology - -	3 years -	3 0 0
<b>HIGHER AND RESEARCH DEGREES.</b>		
M.A., M.Sc., or LL.M. - -	1 or 2 years -	8 0 0
Ph.D. - - - -	2 years -	12 0 0
M.D. or M.Ch. (h) - - -	—	20 0 0
D.Litt., D.Sc., or LL.D. (j) -	—	20 0 0

\* There is also a Graduation fee of £1.

The Higher Degrees of M.A., M.Sc., LL.M., Ph.D., can be awarded to graduates of other Universities approved for this purpose, who have pursued research work for at least two years at one of the constituent Colleges of Wales

**NOTES.**

- (a) Includes Agriculture and Forestry.
- (b) Courses in Agriculture may only be taken at Aberystwyth or Bangor, and those in Forestry at Bangor only.
- (c) Four years for Honours Degree
- (d) Second and third years' courses available only at the University College of South Wales and Monmouthshire, Cardiff. The fourth, fifth and sixth years' courses are provided at the Welsh National School of Medicine, Cardiff.
- (e) See page 253
- (f) See page 245
- (g) Open only to students holding a degree of a recognised University.
- (h) These degrees are open to graduates of the University of Wales only, three years after qualifying for the degrees of M.B., B.Ch.
- (j) These degrees are open to graduates of the University of Wales only, 10 years after their first degree or in the second year after the Ph.D. or the third year after the M.A., M.Sc., LL.M., respectively.

**GENERAL NOTE.**—The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Registrar, the University of Wales, Cathays Park, Cardiff.

# University of Wales.

## University College of Wales, Aberystwyth.

Unless it is otherwise so stated, a student entering on any course must have passed the Matriculation Examination of the University of Wales, or have been exempted therefrom.

For particulars of the Matriculation Examination, see pages 28-29.  
Registration Fee, £1 per annum.

Registration Fee, £1 per annum.

Course.	Period of Study.	Tuition Fee (per Session).	Examination Fees.
DEGREES (a).			
B.A. (b) (Pass and Honours) (c) -	3-4 years -	15 0 0 per session	6 15 0 with an addi- tional £1 for Honours.
B.Mus. (b) (Pass and Honours) -	3-4 years -		
LL.B. (b) (Pass and Honours) -	3-4 years -		
B.Sc. (b) (Faculty of Science) (Pass and Honours) (d).	3-4 years -	20 0 0 per session	
B.Sc. (b) (Faculty of Rural Science) (Pass and Honours) (e)	3-4 years -		
DIPLOMAS AND CERTIFICATES.			
Agricultural Science (Diploma) (f) (m) (Research)	1 year -	15 0 0 per session	5 0 0
Agriculture (Diploma) (f) (g) -	3 years -	12 5 0 (h)	1 0 0
Dairying (Diploma) (g) -	2 years -	17 5 0 (i)	1 0 0
Geography (Diploma) (g) -	1 year -	15 0 0	1 10 0
" " " (g) -	1 year (k) -	—	4 4 0
" " " (g) -	1 year -	15 0 0	1 10 0
" " " (g) -	1 year -	20 0 0	1 10 0
POST-GRADUATE AND RESEARCH WORK (l).			
Involving laboratory work -	—	10 10 0	—
Not involving laboratory work -	—	6 6 0	—

Applications from Indian students for admission to the College should be received not later than 15th June, and should be accompanied by certificates as to their character, educational qualifications, and health. The College, at its discretion, may require such certificates to be authenticated by reference to the Education Department of the High Commissioner for India, unless the application has been forwarded in the first place through one of the University Bureaux or Local Advisory Committees.

### NOTES.

- The conditions for obtaining degrees are laid down by the University of Wales, and exemption from any part of the course is only possible if allowed by the regulations of the University of Wales.
- The Pass Degree can be taken in three years, but an Honours Degree extends over four years and can only be taken in three years provided exemption from the first year has been obtained.
- Honours in Greek, Latin, English, Welsh or Welsh Literature, French, German, History or Welsh History, Geography, Economics and Political Science, Philosophy, Education, Mathematics, Pure Mathematics, Applied Mathematics, Music.
- Honours in Mathematics, Pure Mathematics, Applied Mathematics, Physics, Chemistry, Botany, Zoology, Geology, Geography, Economics and Political Science, Philosophy, Education.
- Honours in Agriculture, Chemistry with Agricultural Chemistry, Botany, Agricultural Botany, Zoology, Zoology including Agricultural Zoology, Agriculture, Economics and Political Science, Economics and Political Science with Agricultural Economics.
- This course extends over three sessions of two terms each.

- (g) These diplomas are awarded by the College, and are open to non-matriculants who have a satisfactory general education
- (h) This includes the practical work fee of 17s. 6d For this course the annual registration fee is 15s.
- (i) This includes the practical work fee of £1 5s
- (j) This diploma is awarded by the University.
- (k) This diploma is only open to Graduates of an approved University
- (l) For details as to the research degrees and the conditions, *see under the University of Wales* (pages 160-161).
- (m) This diploma is only open to Graduates of the University of Wales or to candidates holding equivalent qualifications

### EXEMPTIONS.

Under certain special circumstances exemption may be obtained from courses of the lower grade. Each case must be considered on its own merits, and in no circumstances will it be possible to grant exemption unless the Heads of all Departments concerned are satisfied that the applicant is at the time qualified to pursue courses of a higher grade. It should be observed, however, that the minimum period of residence for a Degree is three years and no reduction of this period can be considered.

For a Diploma in Agriculture or Dairying, any person sufficiently well educated to follow the course would be admitted to it; but as the differences between Indian and English Agriculture are so great, he would be required as a rule to pursue all the courses, which last for two complete sessions of three terms each in the case of Dairy students, and for three sessions of two terms each in the case of Agricultural Diploma students. The latter students must devote the Easter or Summer terms in each session to practical work on an approved farm. No Matriculation Examination is required.

### COLLEGE SOCIETIES.

Men, £1 16s. per annum (compulsory); women, £1 12s. per annum (compulsory).

### HOSRELS.

Men students reside either at home or in registered lodgings

Women students not residing with their parents or guardians must reside in one of the College Halls of Residence (fees £52 10s. to £65 2s. per session).

### MEDICAL SCHEME.

All students are required to pay a capitation fee of 10s. at the beginning of each Session. This is credited to a special fund and students are entitled to call in or consult a doctor on the College panel under the scheme, and prescriptions can be taken to any of the chemists appearing on the panel. The scheme does not provide for specialist treatment.

*GENERAL NOTE.—The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Academic Secretary of the University College of Wales, Aberystwyth.*



# University of Wales.

## University College of North Wales, Bangor.

Unless it is otherwise so stated, a student entering on any course must have passed the Matriculation Examination or have been exempted therefrom.

For particulars of the Matriculation Examination, see pages 28-29.  
Registration Fee (annual), £1 1s.

Course.	Period of Study.	Tuition Fee.	Degree Examination Fee.
DEGREES.			
B.A. (Pass) - - -	3 years - }	15 0 0	} 2 5 0 per annum.
B.A. (Honours) (a) - - -	4 years (b) - }	(per session).	
B.Sc. (Faculty of Science) (Pass or Honours) (b).	3 years - }	20 0 0	
B.Sc. (Faculty of Rural Science) (Pass or Honours) (c).	4 years (d) - }	(per session).	
DIPLOMAS.			
Agriculture (e) (f) - - -	3 winter sessions.	15 15 0 (p)	4 4 0
Forestry (e) (f) - - -	2 sessions -	20 0 0	
Applied Electricity (e) (f) - - -	2 sessions -	20 0 0	
Secondary Teaching (Certificate) (h)	1 year -	35 0 0	
Kindergarten (i) - - -	3 sessions -	20 0 0	
Dairying (p) (f) (j) - - -	2 sessions -	15 15 0	
HIGHER AND RESEARCH DEGREES.*			
Without laboratory - - -	—	6 6 0	{ (not including Registration Fee).
With laboratory - - -	—	10 10 0	

\* For details as to degrees available, see under the University of Wales (page 160).

### NOTES.

- Honours in the Faculty of Arts: Greek, Latin, English, Welsh, French, German, Hebrew, History, Philosophy, Education, Economics, Civic Studies, Mathematics.
- Honours in the Faculty of Science: Mathematics, Physics, Applied Electricity, Chemistry, Botany, Zoology.
- Honours in the Faculty of Rural Science: Chemistry with Agricultural Chemistry, Botany, Botany with Agricultural Botany, Zoology, Agriculture.
- May be reduced to three after first year.
- A student is not required to pass the matriculation, but must produce evidence of a sound general education.
- This is a College diploma.
- Includes Registration Fee and Club Subscription, &c.
- This is a University Certificate. The course is open to graduates of recognised Universities.
- This course is a preparation for the Froebel Examination (see pages 393-396).
- For the National Diploma in Dairying (see pages 314-317, and 332).

### EXEMPTIONS.

For exemptions regarding the matriculation or degrees, see University of Wales (pages 28-29 and 160-161).

## COLLEGE SOCIETIES.

Annual subscription, £2. This is compulsory for all full-time students.

## CAUTION MONEY.

All students from overseas (excepting those from Northern Ireland) are required to deposit at the time of registration the sum of £10 as caution money.

## HOSTELS.

Men (accommodation for 37), £47 per annum; women (accommodation for 200), £49 to £61 per annum.

All students, except those in hostels or residing at home, are required to live in registered lodgings.

Women under 21 must reside in the College Hostel or a specially approved lodging house.

## BOARD AND LODGING.

For students not residing in a hostel, the cost of board and lodging may be estimated at approximately £1 10s per week.

The Registrar of the College should, however, be consulted, as a list of approved and registered lodgings is kept.

*GENERAL NOTE — The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India and the High Commissioner for India (Education Department), London, or direct from the Registrar, University College, Bangor, North Wales.*

# University of Wales.

## University College of South Wales and Monmouthshire, Cardiff.

Unless it is otherwise so stated, a student entering on any course must have passed the Matriculation Examination of the University of Wales, or have been exempted therefrom.

For particulars of the Matriculation Examination *see* pages 23-29.  
Registration Fee (annual), £1 1s.

Registration Fee (annual), £1 1s.			
Course.	Period of Study.	Tuition Fee. (subject to modification). Per annum.	Examination Fee.
DEGREES.			
B.A. (Pass or Honours) (a)	3 years	£ s. d. 15 0 0	6 15 0 and £1 for each Hons. Exam.
B.Sc. (Pure)(Pass or Honours)	3 years	20 0 0	
B.Sc. (Applied Science and Technology) (b).	3 years	30 0 0	
M.B., B.Ch. (Wales) (c) (First three years of study)	6 years	25 0 0 (1st year) 35 0 0 (2nd and 3rd years).	
A fee of £1 1s. is payable on graduation.			
DIPLOMAS.			
Language, Literature, and History of Wales (e).	2 years	15 0 0	1 1 0
Economics and Allied Subjects (f)	2 years	15 0 0	1 1 0
Social Study and Training (g)	2 years	15 0 0	1 1 0
Paleography and allied subjects	1 year	15 0 0	1 1 0
Music (f)	2 years	15 0 0	1 1 0
Engineering (f)	3 years	30 0 0	1 1 0
Metalliferous Mining (f)	3 years	30 0 0	1 1 0
Metallurgy (f)	3 years	30 0 0	1 1 0
Biology (g)	1 year	20 0 0	1 1 0
Teacher's Diploma in Education (d).	1 year	35 0 0	4 4 0
Joint Diploma with S. Wales and Monmouthshire School of Mines:—			
Coal Mining (h)	4 years	24 0 0	1 1 0
Joint Diplomas with Cardiff Technical College:—			
Mechanical Engineering (f)	3 years	20 0 0	1 1 0
Marine Engineering (f)	3 years	20 0 0	1 1 0
Industrial Chemistry (f)	3 years	20 0 0	1 1 0
HIGHER AND RESEARCH WORK.			
For M.A., M.Sc., Ph.D.:—			
With laboratory work	—	10 10 0	{ From £5 to £12
Without laboratory work	—	6 6 0	

Applications from Indian students for admission to the College shall be accompanied by certificates as to their character and educational qualifications. The College at its discretion may require such certificates to be authenticated by reference to the Education Department of the High Commissioner for India, unless the application has been forwarded in the first place through one of the University Bureaux or Local Advisory Committees.

## NOTES.

- (a) Honours in Greek, Latin, English, Welsh, French, German, Hebrew, History, Economics and Political Science, Philosophy, Education, Music, Mathematics.
- (b) Includes Engineering (Civil, Mechanical, Electrical and Building), Metallurgy and Mining.
- (c) The M.B., B.Ch. is only open to graduates of the University or of an approved University. But students who have passed the Matriculation Examination, or have been exempted therefrom, can qualify by completing courses which will lead to the B.Sc. Degree at the end of their third year, and by completing courses in Pathology and Bacteriology, Pharmacology, Medicine, Surgery, Obstetrics and Gynecology during the fourth, fifth and sixth years of study.
- (d) A post-graduate course for the Teacher's Diploma in Education of the University of Wales (*see* page 161)
- (e) Students must be matriculated students of the University of Wales. The courses are selected from the B.A. Course.
- (f) Intending students must pass a Preliminary Examination or the Matriculation of the University of Wales, or an examination exempting therefrom.
- (g) A preliminary examination is required of all intending students. The course may be reduced to one year to candidates with special qualifications.
- (h) Intending students must pass a Preliminary Examination or present certificates of the standard of the School Certificate Examination of Oxford, or Cambridge, or of the Senior Certificate Examination of the Central Welsh Board, or any other equivalent examination.
- (i) Intending students must pass a Preliminary Examination, or be exempted therefrom. Students who have passed in either Biology or Botany and Zoology at the Matriculation or School Leaving Certificate Examination, or who have passed in either Biology or Botany or Zoology at the examination stage of the Higher School Certificate will be exempted from the Preliminary Examination.

## EXEMPTIONS

In so far as University qualifications are concerned, *see* University of Wales (pages 28-29 and 160-161).

With regard to the College Diplomas, no provision has been made in the College for the allowance of concessions to Indian students, but each case will be considered on its merits as it arises. Concessions in the direction of accepting Indian Examinations would almost certainly be made in the case of the Examination preliminary to entry on a course of study for a diploma, if the candidate could produce evidence of having passed an examination which would enable him to profit by the Diploma Courses. Particulars relating to the Preliminary Diploma Examinations are given in the Prospectuses.

## COLLEGE CLUBS AND SOCIETIES

Amalgamation fee, Students' Union Society (compulsory on all students taking two or more courses), £2 7s. 6d. per session.

## HOSTELS.

There are no hostels for men students.

Women students, not residing with their parents or guardians, are required to live at Aberdare Hall, or the College Hall, or, failing such accommodation, with somebody appointed by the parents or guardians and approved by the College.

## BOARD AND LODGING.

For students not residing in a hostel, the cost of board and lodging may be estimated at approximately £2 per week. A list of registered lodging houses is kept at the College Registry.

GENERAL NOTE.—*The above particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from The Registrar, University College of South Wales and Monmouthshire, Cathays Park, Cardiff.*

## University of Wales. University College of Swansea.

Unless it is otherwise so stated, a student entering on any course must have passed the Matriculation Examination of the University of Wales, or have been exempted therefrom.

For particulars of the Matriculation Examination see pages 28-29.  
Registration Fee (annual), £1 1s.

Course.	Period of Study.	Sessional Tuition Fee.	Examination Fee.
<b>DEGREES.</b>			
B.A. (a) - - - -	3 years -	£ s. d. 15 0 0	} 2 5 0 per annum.
B.A. (Honours) (a) - - -	4 years -	20 0 0	
(a) B.Sc. (Applied Science) (b) -	3-4 years -	20 0 0	
(a) B.Sc. (Pure Science) (Pass or Honours) (c). - - -	3-4 years -	20 0 0	
Preliminary M.B., B.Ch. - -	1 year -	20 0 0	
<b>DIPLOMAS.</b>			
Teachers' Secondary Training Course.	—	35 0 0	4 4 0
Metallurgy (d) - - - -	3 years -	20 0 0	1 1 0
Engineering (d) - - - -	3 years -	20 0 0	1 1 0

### HIGHER AND POST-GRADUATE DEGREES.

Students can pursue research work for the higher Degrees of the University of Wales where facilities are available.

FEES: Faculty of Arts, £6 6s.; Faculty of Science, £10 10s. (with laboratory work); £6 6s. (without laboratory work).

### NOTES.

- (a) The course for a Pass Degree extends over three years and the course for an Honours Degree normally extends over four years, although this period may be reduced to three years in the case of students who have obtained exemption from the first year.
- (b) Metallurgy (Pass and Honours), Civil, Mechanical and Electrical Engineering (Pass only).
- (c) Honours in Pure Mathematics, Applied Mathematics, Physics, Chemistry, Botany, Geology.
- (d) Applicants for admission to this course must pass the College Examination (or equivalent) in English Essay, Mathematics, and either Inorganic Chemistry, or Physics, or Mechanics.

### EXEMPTIONS.

The College makes concessions amounting in some cases to the whole of the first University year on Higher Certificate Examinations often passed by pupils entering straight from school. The Senate of the College is however prepared to consider any application for corresponding exemption. Each case will be considered on its individual merits.

It should be noted that the College has no power to grant exemption from more than one year of study, and exemption from the first year of study does not shorten the qualifying period in the College (three years) necessary to obtain a degree of the University of Wales. It does, however, enable a student to take an Honours degree in three years, the normal Honours course covering four years of study.

### STUDENTS' SOCIETY.

Students' Representative Council. Annual subscription, £1 13s. (compulsory).

### HOSTEL.

Women.—A hostel (Beck Hall) is maintained at Gwydr Gardens, Swansea. Board and lodging, £59 17s. per session.

**BOARD AND LODGING.**

For students not residing in a hostel, the cost of board and lodging may be estimated at approximately £1 10s. to £2 10s. per week.

The Registrar of the College should, however, be consulted, as a list of approved and registered lodgings is kept.

**ADMISSION.**

Applications for registration from Indian students must be received before 1st June in each year and should be accompanied by references as to character and educational qualification. The College may, at its discretion, require such certificates to be authenticated by reference to the Education Department of the High Commissioner for India, unless the application has been forwarded in the first place through one of the Information Bureaux or Advisory Committees.

**GENERAL NOTE.**—*The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Registrar, University College, Singleton Park, Swansea, South Wales.*

**Welsh National School of Medicine.****M.B., B.Ch.**

The University of Wales confers the Degrees of M.B., B.Ch. after the pursuance of a Scheme of Study consisting of Two Parts. But before commencing this course students must satisfy the Matriculation requirements of the University of Wales (*see* pages 28–29).

The first year's study of the First Part (i.e. Physics, Chemistry, Botany and Zoology) can be pursued in any one of the four constituent Colleges of the University; the second and third years' studies are pursued in the University College of South Wales and Monmouthshire, Cardiff (Anatomy, Physiology, Organic Chemistry), and at the Welsh National School of Medicine (Pharmacology). These courses qualify for the B.Sc. degree. The three years' study of the Second Part (i.e. Pathology and Bacteriology, Medicine, Surgery, Midwifery, &c.) are pursued at the Welsh National School of Medicine, Cardiff.

**ADMISSION.**

Application for admission to the first year should be made direct to the particular College of the University of Wales selected. For admission to the courses at Cardiff application should be made to the Provost, The Welsh National School of Medicine.

**FEES.**

The composition fees for the full courses are for the first year £25, and for each of the remaining years £35. The total cost of the course, which extends over six years, amounts to £273 10s. including the annual registration fee of £1 1s. and examination and degree fees amounting to £24 15s., but excluding Students' Society subscriptions of approximately £2 15s. per session.

**DIPLOMAS.**

The School also provides courses for the Diploma in Public Health of the University of Wales, for which the fee is £17 1s. (including registration fee) and for the Tuberculosis Diseases Diploma of the University (*see* page 253), for which the fee is £6 6s. (including registration fee).

*The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India and the High Commissioner for India, Education Department, London, or direct from the Secretary, Welsh National School of Medicine, The Parade, Cardiff.*

## Degrees conferred by the Scottish Universities.

The regulations for the award of Degrees of the Scottish Universities are laid down by Ordinances which have been approved by His Majesty in Council. Admission to Degree courses of these Universities requires either exemption from, or the passing of, the Preliminary Examination of the Scottish Universities Entrance Board (see pages 30-31)

There is no B.A. awarded by these Universities, the primary Arts Degree being the M.A., for which the course extends over three years. An additional year is usually required for Honours. The Senatus may accept attendance given or examinations passed at other Universities specially recognised by the University Court, provided that qualifying classes for at least two years are attended in the particular Scottish University concerned, and the examinations of the University passed in the subjects studied therein.

The M.A. and the B.Sc. (Pure Science) Degrees can be taken at any of the Scottish Universities.

The B.Com. is awarded by the Universities of Aberdeen and Edinburgh.

The B.Ed. or Ed.B. two years' course subsequent to graduation can be taken at any of the Universities except St. Andrews, where only the one-year course for the Diploma in Education is provided.

The B.Sc. (Applied Science) can be taken as follows :—

ABERDEEN -	- Agriculture, Forestry and Engineering.
EDINBURGH -	- Agriculture, Forestry, Technical Chemistry, Engineering, Mining, and Veterinary Science.
GLASGOW -	- Four-year (honours) courses : Applied Chemistry (Chemical or Metallurgical), Engineering, Pharmacy, Architecture, Agriculture; three-year courses : B.Sc. Ordinary (Agriculture) and Public Health.
ST. ANDREWS	- Engineering.

The B.L. and the LL.B. Degrees can be taken at Edinburgh, Glasgow and Aberdeen.

The B.L. is a three years' course from the date of the Preliminary Examination.

The LL.B. is a three years' course open to graduates in Arts of a specially recognised University.

The M.B., Ch.B. can be taken at any of the Universities.

The B.Mus. and D.Mus. can be taken at the University of Glasgow, and Mus.Bac. and Mus.Doc. at Edinburgh.

The Ph.D. requires research for two years or more at the University and the production of a thesis. It can be taken in all Faculties and in any . . . . .

For fuller particulars regarding other Higher and Research Degrees, e.g. D.Sc., D.Litt., see under the University concerned.

## Aberdeen University.

A student entering on any course must have passed the Preliminary Examination of the Scottish Universities' Entrance Board or have been exempted therefrom. Students are strongly urged to obtain a certificate of fitness to enter upon a curriculum of study from this Board before leaving India.

For particulars of the Preliminary Examination see pages 30-31.

Annual Matriculation Fee, £2 2s.

Course.	Period of Study	Tuition Fees	Examination Fees
DEGREES			
M.A. (Pass) (a)	3 years	£ s. d. 15 15 0 per annum	£ s. d. 7 17 6
" (Honours) (b)	4 years	18 18 0 (1st year)	} 9 9 0
Ed. B. (c)	2 years	22 1 0 (2nd year)	
B. Com.	3 years	15 15 0 per annum	7 17 6
B Sc (Pure Science)	3 years	31 10 0 per annum (for 3 years)	} 9 9 0
" (Pass)	4 years	2 instalments of £31 10s. and 2 instalments of £21	
" (Honours) (d)	3 years	31 10 0 per annum (for 3 years)	} 9 9 0
" Agriculture (e) (f)	4 years	2 instalments of £31 10s. and 2 instalments of £21	
" " (Honours)	3 years	31 10 0 per annum (for 3 years)	} 9 9 0
" Forestry	3 years	31 10 0 per annum (for 3 years)	
" Engineering	3 years	31 10 0 per annum (for 3 years)	} 9 9 0
" " (Honours) (Civil, Mechanical and Electrical)	3 years	31 10 0 per annum (for 3 years)	
B D.	3 years	14 0 0 per annum	7 17 6
LL B. (g)	3 years	29 8 0 (the whole course)	9 9 0
B L.	3 years	10 10 0 per annum	7 17 6
M B , Ch.B. (h)	5 years	31 10 0 (1st, 2nd, 3rd, 4th years)	} 34 13 0
		6 6 0 (5th year)(i)	
DIPLOMAS.			
Public Health (j)	12 months	22 1 0	8 8 0

### HIGHER AND RESEARCH DEGREES.

D. Litt	{	Open to graduates of three* years' standing of the University of Aberdeen or of other recognised Universities. Research students must also spend not less than two winter sessions or equivalent at the University of Aberdeen. All candidates must present a thesis.
D So (Pure Science).		
Ph D.	{	Open to graduates of three years' standing at Aberdeen University unless special permission to study elsewhere is granted. A thesis is required
M.D, Ch M.	{	Open only to graduates in Medicine or Surgery of Aberdeen University. Students must have pursued either one year's study under special conditions, or been in practice for two years. A thesis is required.

The Degree fees for the Doctorates are from £10 10s to £21.

\* Five years for D Sc (Pure Science).



## NOTES.

- (a) There is no B.A. awarded at the University; the M.A. in the first degree.
- (b) Honours Groups in Classics; Mental Philosophy; Mathematics and Natural Philosophy; English Language and Literature; Modern Languages and Literature (French-German); History; History-English; Economic Science; Latin-French, Greek-English; French-English; German-English; French-Spanish; German-Spanish; Latin-Spanish; Latin-Celtic; Moral Philosophy and English; Geography.
- (c) This course is open to graduates in Arts or Science of a Scottish or any other approved University.
- (d) Honours Groups in Mathematics; Natural Philosophy (Physics); Chemistry; Geology; Zoology; Botany; Anatomy; Physiology; Geography; Anthropology.
- (e) Honours Groups in Agricultural Botany, Chemistry or Zoology.
- (f) A student must complete one year's practical experience on a farm before commencing study for the Degree.
- (g) The LL.B. is open to graduates in Arts of a University of the United Kingdom or any other approved University. For a graduate of another University, the inclusive fee for this Degree is £42.
- (h) This course must be commenced in October.
- (i) Clinical and Hospital Fees are about £70 more.
- (j) This diploma is only open to students holding a registrable medical qualification of not less than two years' standing. The course is twelve calendar months, of which one academic term must be spent at Aberdeen. This course must be commenced in October. In addition to the University tuition fees, a sum of £14 14s. is payable for extra-mural classes. See also page 215.

## EXEMPTIONS.

With the exception of the Preliminary Examination, this University does not make any exemptions or concessions in virtue of Degrees or Courses obtained or pursued at Indian Universities unless a special application has been submitted and approved by the University Court.

So far as the Preliminary Examination is concerned, all applications for exemption must be submitted to the Secretary, Scottish Universities Entrance Board, 81, North Street, St. Andrews. See pages 30-31.

## STUDENTS' SOCIETIES.

The Aberdeen University Union (for men students), 5s. entrance fee and 5s. annual subscription.

Women's University Union. — Available for women students. Annual subscription, 5s.

The Students' Representative Council looks after the general interests of students.

## HOSTELS.

There are no hostels organised by the University.

## BOARD AND LODGING.

The cost of board and lodging may be estimated at approximately £1 10s. per week.

A list of registered lodgings is, however, kept by the Secretary of the Students' Representative Council.

GENERAL NOTE.—The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Secretary of the University, Aberdeen, Scotland.

## The University of Edinburgh.

Unless it is otherwise so stated, a student entering on any course must have passed the Preliminary Examination of the Scottish Universities' Entrance Board, or have been exempted therefrom.

For particulars of the Preliminary Examination, see pages 30-31.  
Matriculation Fee, £2 12s. 6d. (annual).

Course.	Period of Study.	Tuition Fees (per year).	Examination Fees. (a)
<b>DEGREES.</b>			
M.A. (b) - - -	3 years -	£ s. d. 15 15 0	} 7 17 6
(Hons.) (m) - - -	4 years -	15 15 0	
B.Com. - - -	3 years -	15 15 0	7 17 6
B.Sc. (Pure Science) (n) -	4 years -	26 5 0	9 9 0
B.Sc. (Technical Chemistry) (c) -	4 years -	31 10 0	9 9 0
B.Sc. (Engineering) (Ordinary or Honours, Civil, Mechanical or Electrical). -	3 years -	31 10 0	9 9 0
B.Sc. (Agriculture) -			
Ordinary - - -	3 years -	31 10 0	9 9 0
Honours - - -	4 years -	31 10 0	9 9 0
B.Sc. (Forestry) -			
Ordinary - - -	3 years -	36 15 0	9 9 0
Honours - - -	4 years -	3 of £36 15s. 1 of about £12 12s	} 9 9 0
B.Sc. (Mining) - - -	4 years -	31 10 0 (1st year) 26 5 0 (other years)	
B.Sc. (Veterinary Science) (d) -	4 years -	Separate fee for each class	9 9 0
B.Ed (e) - - -	2 years -	15 15 0 (1st year) 23 12 6 (2nd year)	} 9 9 0
B.L. (f) - - -	3 years -	10 10 0	
LL.B. (f) - - -	3 years -	14 14 0	7 17 6
M.B., Ch.B. - - -	5 years -	Approx. £230 (total fees, including Hospital fees).	9 9 0
<b>DIPLOMAS</b>			
Agricultural Science (g) -	1 year -	31 10 0	3 3 0
Actuarial Mathematics (h) -	2 years -	22 1 0	2 2 0
Psychiatry (i) - - -	3 months -	34 13 0 (maximum)	12 12 0
Public Health (i) - - -	9 months -	50 10 0	12 12 0
Tropical Medicine and Hygiene (i) -	6 months -	37 10 0	6 6 0
Tropical Veterinary Medicine (o) -	6 months -	31 10 0	6 6 0
Radiology (i) - - -	9 months -	37 16 0	12 12 0
Education (e) - - -	1 year -	15 15 0	3 3 0
Social Science (j) - - -			
Certificate in Social Science (k) -	—	—	—
Technical Chemistry (l) -	1 year -	31 10 0	4 4 0
English Language - - -	1 year -	As for classes required	2 2 0
French - - -	1½ year -	" "	2 2 0
German - - -	1½ year -	" "	2 2 0
Spanish - - -	1½ year -	" "	2 2 0

### HIGHER AND RESEARCH DEGREES.

- D.Litt., D.Sc. (Pure Science). { Open to honours graduates of five years' standing in the University or other recognised University and to Research students who have spent not less than two winter sessions or equivalent at the University of Edinburgh.
- D.Sc. (Engineering). { Open to honours graduates in Engineering of Edinburgh University of five years' standing, or under special circumstances, to ordinary graduates of similar standing.



- (m) The degree of M.A. can be taken with honours in the following groups : Classics; Mental Philosophy; Mathematics and Natural Philosophy; English, with English Language as secondary, Modern Languages, viz., French, German, Celtic or Spanish, History; Economic Science, Semitic Languages; Sanskrit, Geography. In the case of Modern Languages a second language must be studied to the Intermediate Honours stage
- (n) The degree of B.Sc. in Pure Science can be taken with honours in Mathematics, Applied Mathematics, Astronomy, Physics, Chemistry, Geology, Botany, Zoology, Anatomy, Physiology, Bacteriology, Anthropology, Pathology, Experimental Psychology.
- (o) Open only to those who hold a Veterinary Qualification registrable by the Royal College of Veterinary Surgeons See page 109

### EXEMPTIONS.

1. In all cases where it is stated that courses may be accepted as qualifying for the Edinburgh Examinations it must of course be understood that the amount and general scope and standard of the teaching are approximately equivalent to the corresponding courses in Edinburgh.

Each application will be considered on its merits and exemption may be granted from attendance or from both attendance and examination.

2. Students who require to pass any Degree Examinations before entering on study have the opportunity of doing so in September.

3. In the *Faculty of Arts*, a Graduate of India may be exempted from attendance on, and examination in, two subjects for the M.A. Degree of Edinburgh, thus saving a year.

4. In the *Faculty of Arts (Commerce)*, exemption may be granted from attendance on, and examination in, three subjects necessary for the B.Com. Degree, but each case is considered on its merits. In the event of two or three subjects being accepted, a year would be saved.

In the *Faculty of Arts* a degree is necessary before admission is granted for study for the (1) Diploma and (2) Degree in Education. Special application must be made to have an outside degree recognised (see Note (e), page 174).

5. In the *Faculty of Science*, courses in Universities and other Institutions of academic standing outside Great Britain may be accepted on the production of satisfactory evidence as to the nature of the course and the applicant's performance in it. Applications for such exemption should be sent in by 1st April.

6. In the *Department of Engineering*, candidates from India who have attended courses in and passed the Intermediate or later examination, in the First Examination subjects (Chemistry, Physics and Mathematics) of the *University of Edinburgh* may be exempted from attendance in these subjects for the Edinburgh Degree. Such exemption does not shorten the *period* of the course, as the subjects of General Engineering and Engineering Laboratory and Drawing Office must be attended in the First Year. Only in the case of those holding the Degree of Bachelor of Engineering may exemption from attendance from these two subjects also be granted, thus enabling them to complete the Degree within two years subject to the First Science Examination being passed before admission.

7. In the *Department of Veterinary Science* at least one year must be attended in the University of Edinburgh, and the remaining three years may be attended in a recognised institution. All examinations must be passed in Edinburgh. A candidate, before being admitted to the Degree, must hold a qualification recognised by the Royal College of Veterinary Surgeons, entitling him to be registered in the Register of Veterinary Surgeons.

8. In the *Faculty of Medicine* Indian students who propose to take the Degrees of M.B., Ch.B., must pass the four professional examinations of the University of Edinburgh, but certain courses taken in India may be recognised if the University Court is satisfied that their scope and standard correspond to those of the courses given in the subjects in the University.

Three out of the five years of medical study must be spent at the University. The remaining two may be spent at any University of the United Kingdom or at any Indian or foreign University recognised by the University Court.

#### STUDENTS' SOCIETIES.

University Union (for men); entrance fee 5s., annual subscription, £1 11s. 6d.

Women's University Union; annual subscription, £1 1s.

Athletic Club.

Women's Athletic Club.

Also numerous Debating and other Societies.

#### HOSTELS.

*Men.*—Attention may be drawn to the International Students Hostel, 5, Grosvenor Crescent, which is administered by the Young Men's Christian Association.

#### *Women.*—

Craigmillar Park Hostels provide accommodation for 156 women students. Board and residence, £50 for the session of three terms.

Masson Hall, which is primarily intended for Arts students, provides accommodation for 48 women students. Board and residence, £60 to £72 for three terms.

Muir Hall provides accommodation for 29 students. Medical students have a preference. Board and residence, £54 to £66 for three terms.

#### BOARD AND LODGING.

For students not residing in a hostel, the cost of board and lodging may be estimated at from £2 5s. up per week.

The Adviser should, however, be consulted.

#### ADVISER TO INDIAN STUDENTS.

The University Court has appointed Dr. J. E. Mackenzie, University Reader in Chemistry, King's Buildings, to the office of University Adviser to Indian Students. They can obtain from him information or advice which may be useful to them in planning their course of study, and he will act as their guardian and as administrator of their funds if desired to do so by their parents or guardians.

**GENERAL NOTE.**—The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the University Adviser or from the Secretary, The University, Edinburgh, Scotland.

## Heriot Watt College, Edinburgh.

This College awards a diploma in the subjects of Mechanical Engineering, Electrical Engineering, Mining Engineering, Oil Mining, Applied Chemistry and Bio-Chemistry (Fermentation Industries). It also provides facilities for post-graduate study or research in Applied Chemistry, Mechanical Engineering, Electrical Engineering, and Mining Engineering.

The award of the Diploma of the College carries with it the Associateship of the College (A.H.-W.C.).

The College is affiliated to the University of Edinburgh, and certain courses are recognised by the University for Degrees in Science, in Engineering, Mining, and Technical Chemistry.

Applicants must pass an Entrance Examination in English, Mathematics, Experimental Science and one of the following: French, German, Spanish, Latin or another approved language. Three months' notice must be given of an application for examination in a language other than those mentioned. Students who satisfy the Principal as to their educational qualifications may be exempted from the Entrance Examination.

In conjunction with the Institution of Mechanical Engineers and the Institution of Electrical Engineers, National Diplomas are awarded in Mechanical and Electrical Engineering respectively under certain conditions.

The College also offers a two years' course in Building Science for Building Contractors' Managers, Clerks of Works, Estate Factors and others proposing to enter the building trades. A special certificate is awarded on the satisfactory completion of the course.

In the Printing Department courses of instruction suitable for those intending to take up positions in the managerial side of printing are provided. A special certificate is awarded to students who complete the course satisfactorily (*see also* pages 305-6).

In Pharmacy, courses approved by the Pharmaceutical Society of Great Britain are offered for the Preliminary Scientific Examination and the Chemist and Druggist Qualifying Examination

### *Fees :—*

Matriculation fee for Diploma Course, £1 10s.; other courses, 10s.

Mechanical and Electrical Engineering (including fee £3 3s. for Summer Workshop Course), £30 3s. first year, £27 second year, £27 third year.

Mining Engineering, £30 per annum (three years).

Applied Chemistry, £25 first year, £25 second year, £20 third year, £20 fourth year.

Bio-Chemistry, £31 10s. per annum.

Building Science, £24 per annum.

Printing, £18 18s. per annum.

Pharmacy, £21 per annum.

**GENERAL NOTE.**—*The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Principal, Heriot Watt College, Edinburgh, Scotland.*

## The University of Glasgow.

Unless it is otherwise so stated, a student entering on any course must have passed the Preliminary Examination of the Scottish Universities Entrance Board, or have been exempted therefrom.

For particulars of the Preliminary Examination *see* pages 30-31.

Matriculation Fee. £2 12s. 6d. (annual).

Course.	Period.	Tuition Fees.	Examination and Degree Fees.(a)
<b>DEGREES.</b>			
		£ s. d.	£ s. d.
M.A. (Pass) (b) - - -	3 years	15 15 0 per annum	7 17 6
M.A. (Honours) (c) - - -	4 years		
B.Sc. (Pass) (d) - - -	3 years	31 10 0 per annum	9 9 0
B.Sc. (Honours) (c) - - -	4 years		
B.Sc. (Public Health) (f) - - -	21 months	45 3 0	9 9 0
Ed.B. (g) - - -	2 years	18 18 0 per annum	9 9 0
M.B., Ch.B. - - -	5 years	52 0 0 per annum approx. (including hospital fees).	34 13 0
LL.B. (h) - - -	3 years	14 14 0 (1st session)	9 9 0
		13 13 0 (2nd and 3rd sessions).	
B.L. - - -	3 years	10 10 0 per annum	7 17 6
B.D. - - -	3 years	16 16 0 per annum	7 17 6
B.Mus. (Pass) - - -	3 years	- - -	15 15 0
B.Mus. (Honours) (i) - - -	4 years	- - -	15 15 0
<b>DIPLOMAS AND CERTIFICATES.</b>			
Mining Engineering (j) - - -	3 years	31 10 0 approx. per annum.	1 1 0
Engineering Science (j) - - -			
Diploma in Public Health (D.P.H.) (f) - - -	1 year	25 5 0	9 9 0

### HIGHER AND RESEARCH DEGREES.

RESEARCH AND RESEARCH DEGREES.	
D.Litt., D.Sc.	- { Open to: (1) Graduates of the University of Glasgow of five years' standing who have, before or after graduation, passed an examination in an Honours Group in Arts or in Pure or Applied Science; (2) Graduates of other Universities who have obtained degrees specially recognised by the University Court as equivalent to corresponding degrees in Glasgow. Such candidates must be Research students in Glasgow University or an affiliated College for at least two years and not less than five years must elapse before a thesis can be presented.
M.D.	- {
Ch.M.	- { Open only to graduates in Medicine and Surgery of Glasgow University. An examination must be passed and a thesis presented.
D.Sc.	Public {
Health.	{ Open only to graduates in Public Health of Glasgow University of five years' standing. A thesis is required.
D.Mus.	- {
	{ Open to (1) Honours graduates in Music of five years' standing; (2) Bachelors of Music of other Universities specially recognised by the University Court, who have spent not less than three years as Research Students in the University of Glasgow.
Ph.D.	- {
	{ Open to graduates of recognised Universities, who must study for three years at Glasgow unless granted special permission to study elsewhere. A thesis is required.

**Fees:—**

	£	s.	d.
Annual Matriculation fee	-	2	12 6
On presentation of thesis for Ph.D.	-	10	10 0
" " M.D.	-	21	0 0
" " Ch.M.	-	21	0 0
" " other Doctorates	-	15	15 0

**NOTES.**

- A registration fee of £1 is payable by candidates proceeding to graduation.
- No B.A. is awarded. The M.A. is the first degree.
- Among the groups of subjects for Honours are the following: Classics, Philosophy, Mathematics and Natural Philosophy, English, History, Economics, Hebrew and Arabic.
- Includes Agriculture, Pharmacy and Pure Science. There is no Pass Course in Engineering.
- Honours in Mathematics, Natural Philosophy, Astronomy, Chemistry, Botany, Zoology, Geology, Geography, Anatomy, Physiology, Pathology with Bacteriology, Pharmacy, Applied Chemistry, Applied Chemistry (Metallurgy), Agricultural Chemistry, Agricultural Botany, Agricultural Bacteriology and Bio-Chemistry, Agriculture and Agricultural Economics, Agricultural Zoology, Architectural Design, Architectural Construction, and Civil, Mechanical, Electrical, Mining and Chemical Engineering and Naval Architecture. In the case of candidates who fail to reach Honours standard, the Examiners may recommend the Senate to grant a Pass Degree under such conditions as the examination results may indicate as necessary.
- This degree or diploma can only be taken 2 years after a medical qualification has been obtained. See page 245.
- This course is only open to Graduates of a Scottish University or of a University specially approved by the University Court. Candidates must have had teaching experience. Applications from India should be forwarded a year in advance. Applications received after the end of May will not be considered.
- This is only open to Graduates in Arts of Glasgow or other recognised Universities.
- Special examination papers are set.
- Candidates need not pass the Preliminary Examination, but they should have studied Mathematics up to the Higher Preliminary Examination Standard.

**EXEMPTIONS.**

A student from India who has attended degree courses at a recognised Indian University may receive exemption from class attendance on certain courses at Glasgow University, but he will be required to pass the degree examinations.

Applications for exemption must be supported by certificates of attendance, showing the number of hours attended in each course, duly signed by the teacher or other official. They must be accompanied by a printed (or certified) syllabus of the course. Each application is dealt with individually, and early application is necessary.

Candidates who submit applications for exemption, in addition to having their previous courses of study approved, must now sit the First Science Examination as a test. Exemption is granted only when the results of this test have been considered by the Faculty.

The Test Examination commences about the middle of September in each year.

**STUDENTS' SOCIETIES.**

The Students' Representative Council organises the social and sporting interests of the College. No subscription is payable.

**HOSTELS.**

Two Halls of Residence for men students have now been opened. The charges have been fixed provisionally at £17 10s. per term.



## BOARD AND LODGING.

For students not residing in a hostel, the cost of board and lodging may be estimated at approximately £2 5s. per week.

The Local Adviser should, however, be consulted.

## LOCAL ADVISER.

*Adviser to Indian Students.*—By the appointment of the High Commissioner for India, on the recommendation of the Vice-Chancellor of the University of Glasgow, Dr. R. M. Brown, D.Sc. (Engineering Department, University of Glasgow), University Lecturer in Engineering, is Adviser to Indian Students in Glasgow. They can obtain from him information or advice which may be useful to them in planning their course of study, and he will act as their guardian and as administrator of their funds, if desired to do so by their parents or guardians.

GENERAL NOTE.—*The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India and the High Commissioner for India (Education Department), London, or direct from the Local Adviser or the Registrar, The University, Glasgow, Scotland.*

## Royal Technical College, Glasgow.

This College provides recognised courses for the Degrees in Applied Science (Engineering, Applied Chemistry, Pharmacy, and Architecture) of the University of Glasgow, and also awards Diplomas in Engineering Science (Civil, Mechanical, Electrical, Chemical, Mining Engineering, or Naval Architecture), in Chemistry, Metallurgy, Building, Textile Manufacture, Dyeing, Sugar Technology (Chemical) and Sugar Technology (Engineering).

For the University Degree the conditions are the same as for students of the University of Glasgow, and the Diploma is awarded after completion of the prescribed course of study at the College for the specified periods (four years for Chemistry and Metallurgy and three years in other branches).

For the Associateship in any Department a minimum attendance of four years is required.

Special facilities are available for research.

Students must pass the Preliminary Examination of the Scottish Universities' Entrance Board (*see* pages 30-31) before commencing a degree or diploma course, or possess similar qualifications.

*Fees*.—£26 5s. for each year's complete course for the Diploma or Associateship.

Students pay an inclusive fee of £94 10s. (£23 12s 6d. per annum for four years) for a course qualifying for graduation in Applied Science, and are at liberty to attend approved classes either in the University or in the College or in both. (This excludes Matriculation, &c., fees payable to the University.)

The *Glasgow School of Architecture* is maintained by the Royal Technical College and the Glasgow School of Art, and its Diploma exempts from the examinations of the Royal Institute of British Architects.

**GENERAL NOTE.**—*The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India and the High Commissioner for India (Education Department), London, or direct from the Secretary, Royal Technical College, Glasgow, Scotland.*

# St. Andrews University.

(United College, St. Andrews, and University College, Dundee.)

Unless it is otherwise so stated, a student entering on any course must have passed the Preliminary Examination of the Scottish Universities' Entrance Board, or have been exempted therefrom.

For particulars of the Preliminary Examination see pages 30-31.

Annual Matriculation Fee, £2 12s. 6d.

Course.	Period of Study.	Tuition Fees.	Examination Fees (a)
<b>DEGREES.</b>			
M.A. (Pass) (b) . . .	3 years . . .	£ s. d. 15 15 0 per annum	£ s. d. 7 17 6
M.A. (Honours) (c) . . .	4 years . . .		
B.Sc. Pure Science :—			
(Pass) . . . . .	3 years . . .	26 13 4 per annum	9 9 0
(Honours) (d) . . . . .	4 years . . .	23 12 6 per annum	9 9 0
(Engineering) (Pass and Honours) (e). . . . .	3 or 4 years . . .	31 10 0 per annum	9 9 0
M.B., Ch.B. (f) . . . . .	5 years (f) . . .	23 12 6 per annum	31 13 0
		36 8 0 per annum (h)	
<b>DIPLOMAS.</b>			
Licentiate in Dental Surgery (g) (i). . . . .	4 years . . .	About £200 for whole course, including fees for Dental Hospital.	10 10 0
Public Health (h) . . . . .	1 year . . .	31 10 0	10 10 0
Public Dentistry (j) . . . . .	1 year . . .	25 0 0 (about)	5 5 0
Education (k) . . . . .	1 year . . .	15 15 0	4 14 6

## HIGHER AND RESEARCH DEGREES.

- D. Litt. . . . . { Open to Honours graduates of five years' standing of the University of St. Andrews or other recognised Universities. Research students (including all graduates of other Universities) must also spend not less than four terms or equivalent at the University of St. Andrews. All candidates must present a thesis. Fee on presentation of thesis, £15 15s.
- D.Sc. (Pure Science). . . . . { Open to Honours graduates of five years' standing of St. Andrews University or of other recognised Universities. Research students (including all graduates of other Universities) must also spend not less than six terms or an equivalent at the University of St. Andrews. All candidates must present a thesis. Fee on presentation of thesis, £15 15s.
- D.Sc. Engineering. . . . . {
- Ph.D. . . . . { Open to graduates of recognised Universities who must study for nine terms at St. Andrews University, unless granted special permission to study elsewhere. A thesis is required. Fee on presentation of thesis, £10 10s.

## NOTES.

- A registration fee of £1 is necessary before graduation.
- There is no B.A. awarded at the University; the M.A. is the first degree.
- Honours in Classics, Modern Languages (English, French or German, or a combination of two of these), Philosophy, Psychology, Economics, History, Mathematics and Physical Science, or Philosophy with English, or History with English.
- Honours in Mathematics, Applied Mathematics, Natural Philosophy, Chemistry, Geology, Botany, Zoology, Anatomy, Physiology, Pathology.
- This course, which includes either Civil, Mechanical or Electrical Engineering, can only be taken at Dundee.

- (f) The third, fourth and fifth years of study can be taken at Dundee, but not at St Andrews.
- (g) Candidates for this course must pass the Preliminary Examination of the Scottish Universities' Entrance Board (*see* pages 30-31).
- (h) This Diploma is only open to registered medical practitioners of two years' standing. The curriculum spreads over at least 12 months subsequent to attainment of medical qualification, of which eight months must be taken at the University of St Andrews in the case of graduates of other Universities *See also* page 215
- (i) It should be noted that a Pre-registration Examination in Physics and Chemistry should be passed if the student desires to register with the General Medical Council as a medical or dental student.
- (j) This Diploma is open only to registered dental practitioners.
- (k) A candidate for this Diploma must have obtained the degree of M.A. or the equivalent degree of another University
- (l) Excluding Perpetual Hospital Ticket, £12 12s, and fee for cases of Labour, £2 2s.

### EXEMPTIONS.

Under the Ordinances regulating Graduation, the *Senatus Academicus*, with the approval of the University Court, may exempt from part of the curriculum or examinations students who have given attendance or passed examinations at other Universities recognised by the University Court for the purpose.

### STUDENTS' SOCIETIES.

The Students' Representative Council looks after the general interests of the students.

There are also the following :—

- (a) The Students' Union for men. Annual subscription, £1 1s.
- (b) The Women Students' Union. Annual subscription, 15s.
- (c) The Athletic Union. Annual subscription, 10s.

### HOSTELS.

*For Men*.—St. Salvador's, Dean's Court and Seaview (St. Andrews), £63 per session.

*For Women* :—

There are four houses occupied as residences at St. Andrews :  
University Hall, Kinnessburn, Afton and Chattan House.  
£66 and upwards per session.  
Hostel for women students (Dundee). £40 per session.

### BOARD AND LODGING.

For students not residing in a hostel, the cost of board and lodging may be estimated at approximately £2 per week.

The Secretary of the University should, however, be consulted, as usually a list of lodgings is kept.

**GENERAL NOTE.**—*The above general particulars should be verified in each case and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Secretary, The University, St. Andrews, Scotland.*

## School of Economics and Commerce, Dundee.

The School provides courses of training for young men and women who aspire to responsible administrative posts in industry and commerce. It offers three different courses of instruction.

- (1) To University Graduates it offers a course leading to the Post-Graduate Diploma in Business Administration. This is a one-year course for day students, but evening students will in general spread it over two years.
- (2) To students qualified in terms of the regulations it offers a course leading to the Diploma in Commerce of the School. This course extends over a minimum of two years; evening students will normally spread it over three or four years.
- (3) Courses extending over a minimum of three years are offered to duly qualified students who wish to read for the External Degrees in Economics and Commerce at the University of London (B.Sc.Econ. and B.Com.). The courses of instruction at the School do not include instruction in foreign languages, but the fee for the course covers the provision of coaching in French.

Further, the lectures and classes at the School are open to approved students who do not possess the necessary qualifications or who do not wish to pursue a full course of study leading to a Diploma. Persons engaged in banking, accounting, education, and local government will find in the courses of the School opportunities of specialised or advanced study on particular subjects.

### FEES.

#### Day Courses—

Post-Graduate Diploma	-	£10 10s. per session*.
Diploma in Commerce	-	£10 10s. per session*.
External B.Com., London	-	£15 15s. per session.
External B.Sc.Econ., London	-	£15 15s. per session.

\* For students not normally resident in the British Isles, £15 15s.

#### Evening Courses—

Post-Graduate Diploma	-	£3 3s. per session.
Diploma in Commerce	-	£3 3s. per session.
External B.Com., London	-	£4 4s. per session.
External B.Sc.Econ., London	-	£4 4s. per session.

GENERAL NOTE.—The above general particulars should be verified in each case, and fuller information can be obtained either through the Secretary, School of Economics and Commerce, Dundee, or the Local Advisory Committee in India and the for India (Education Department), London, or direct from the Secretary, School of Economics, Dundee, Scotland.

## IRELAND.

### Queen's University of Belfast.

Students for admission to this University must pass the Matriculation Examination in five subjects, for full particulars of which see pages 32-33.

Course.	Period of Study.	Tuition Fees (inclusive).	Examination Fees	Degree Fees
<b>DEGREES.</b>				
B.A. (Pass or Honours) (a) -	3 years -	£ s. d. 34 13 0	£ s. d. 6 6 0	£ s. d. 5 5 0
B.Sc. (Pass or Honours) -	3 years -	60 18 0	8 8 0	5 5 0
B.Sc. (Engineering (b) and Applied Science) (Pass or Honours).	3 years -	66 13 0	8 8 0	5 5 0
B.Agr. (Pass or Honours) -	4 years -	88 4 0	8 8 0	5 5 0
B.Com.Sc. -	3 years -	34 13 0	6 6 0	5 5 0
LL.B. (c) -	3 years -	(d)	6 6 0	5 5 0
M.B., B.Ch., B.A.O. -	5 years -	155 0 0	17 17 0	13 13 0
B.D.S. -	5 years -	(approx.) 170 0 0 (e) (approx.)	10 10 0	10 10 0
<b>DIPLOMAS.</b>				
Diploma in Education -	1 or 2 years -	12 12 0	2 2 0	2 2 0
D.P.H. (f) -	2 years -	27 6 0	4 4 0	5 5 0
L.D.S. -	4 years -	170 0 0 (e) (approx.)	8 8 0	5 5 0

There is an annual enrolment fee of £3 10s. payable by all students.

#### HIGHER AND RESEARCH DEGREES.

M.A., M.Sc.	{ Open to graduates of the Belfast University one year after first degree (by thesis or examination).
D.Sc.	{ Open to graduates of the Belfast University three years after graduation (by research).
M.D., M.Ch., M.A.O.	{ Open to graduates of the Belfast University three years after graduation in Medicine (by thesis or examination).
D.Litt., LL.D.	{ Conferred on distinguished graduates of Belfast University for research.
Ph.D.	{ This degree is the only higher degree to which Indian graduates can proceed direct. It requires two years' research under the supervision of the Queen's University of Belfast.

#### NOTES

- (a) Honours Schools in Classics, English Literature, English Language, Mediæval and Modern History, Modern Languages, French Language and Literature, German, Spanish, Celtic, Mathematics, Philosophy, Economics, Economic History and Political Science, Modern History and Economics, Economics and Philosophy, Scholastic Philosophy, Geography, Economic History and Economics
- (b) Civil, Mechanical or Electrical
- (c) Under a new regulation, graduates of this or an approved University may obtain this degree in not less than two years.
- (d) There is no inclusive fee for these subjects; each class is paid for separately the fees being £3 3s per class
- (e) Excluding hospital fees of approximately £37.
- (f) See page 245

#### EXEMPTIONS.

Students from certain other Universities in the British Empire, and elsewhere, will be received by the University and may apply for exemption from—

- (1) A year's attendance at the University.
- (2) Attendance and examination in three subjects of the course for the Pass degree in Arts, or in the two subsidiary subjects in any Honours School in that Faculty.

- (3) Attendance and examination in the subjects of the Intermediate Examination in the Faculty of Science, and, if they are candidates for Honours, attendance and examination in one of the subsidiary subjects at the Final Examination in that Faculty.
- (4) Students in Medicine may apply for exemption from two years' classes and exemption from the First Medical Examination.

Applications should be made to the Secretary of the University, who will submit them, if in order, to the Dean of the Faculty.

Exemption from attendance or examination in any subject will only be granted to those who have attended an equivalent course or passed an equivalent examination or test in that subject.

Candidates who are exempted from any examination will be required to pay the examination fee.

#### ADMISSION.

Application for registration from Indian undergraduate students shall be received before 1st June in each year, and shall be accompanied by references certifying as to character and educational qualifications. The University, at its discretion, may require such certificates to be authenticated by reference to the Education Department of the High Commissioner for India, unless the application has been forwarded in the first place through one of the Indian Information Bureaux or Local Advisory Committees.

#### COLLEGE SOCIETIES.

The enrolment fee of £3 10s. includes admission to the various societies.

#### BOARD AND LODGING.

The cost of board and lodging in the town may be estimated at approximately £1 10s. per week upward.

The Secretary of the University should, however, be consulted, as usually a list of approved and registered lodgings is kept.

**GENERAL NOTE.**—*The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Secretary, The Queen's University, Belfast, Northern Ireland.*

# University of Dublin.

## Trinity College.

Students for admission to Trinity College, Dublin, are required to pass the necessary entrance examination (*see* page 34).

The regular period of study for the Degree in Arts extends over four years, but there are provisions by which a student can obtain his degree in a shorter period.

All students must take the B.A. Degree before proceeding to a Degree in any Professional Faculty (except Music). The Honours B.A. Schools are: Mathematics, Classics, Mental and Moral Philosophy, Experimental Science, Natural Science, History and Political Science, Modern Literature, Legal Science, Economics and Political Science, Engineering Science, Celtic, Oriental Languages. The fees for the B.A. Course amount to approximately £100.

The following degrees are also awarded :—

Degree.	Period of Study.	Tuition Fees
		£ s d
LL.B.* -	2 years - - - - -	
M.B., B.Ch., B.A.O. -	5 years; can be taken concurrently with the B.A. Degree course but the B.A. must be obtained before these Degrees are conferred.	247 3 0 (including Arts Degree).
B.Dent Sc. -	4½ years Do. do.	331 15 6 (including Arts Degree).
B.A.I. (Engineering)	3 years (there is an optional 4th year in Elect & Mech. Eng)	152 0 0 (including Arts Degree).
B. Comm. -	3 years - - - - -	151 0 0 (including Arts Degree).

Diplomas are awarded in Education, Economical and Commercial Knowledge, Electrical Engineering, Gynaecology and Obstetrics (one year course), Public Health, Psychological Medicine, Geography, Social Studies, History of European Painting, and Religious Knowledge (for women only).

The College also awards the following Higher and Research Degrees: M.A.; Sc.D.; Litt.D.; Ph.D.; LL.D.; M.D.; M.Ch.; M.A.O.; M.Dent Sc.; M.A.I. Prior to obtaining any of these degrees, except Ph.D., a student, whether a graduate or otherwise of an Indian University, must obtain the Dublin B.A.

*Doctor in Philosophy.*—The following are the regulations governing this degree:—

- (1) A candidate for the Degree of Doctor in Philosophy (Ph.D.) must apply to the Board, through the Registrar, for permission to begin his course. Application must be made on the prescribed form, which must reach the Registrar at least one month before the first day of the Term in which the candidate desires to begin.
- (2) If the candidate's application be granted, he must pursue in the University of Dublin a whole-time course of advanced study or research in his selected subject, under the supervision of the Professor concerned therewith, during a period of six

\* A candidate for the Bachelor in Laws must hold the B.A. either of the Universities of Dublin, or of Oxford, or of Cambridge, and must pass two examinations in Dublin—the Intermediate Examination in Law and the Final LL.B.; and no qualification whatever (except the B.C.L. of Oxford or the LL.B. of Cambridge or of Dublin) can exempt a candidate from these tests.



Terms. Except by permission of the Board, no other work may be undertaken by the candidate, and the six Terms must be consecutive.

- (3) Candidates who are not Graduates of the University of Dublin must work in the University during their first three Terms at least, but may in special circumstances receive permission to keep the remaining Terms elsewhere. Graduates of the University may receive such permission for any three Terms of their course.
- (4) A candidate is permitted to keep a Term in the Long Vacation of each year, provided that he obtains the supervising Professor's consent, works for a period of not less than seven weeks, and pays special fees.
- (5) At the conclusion of his course the candidate must present the result of his work in the form of a thesis, of which two copies, either printed or typewritten, and bound or otherwise properly secured, must be received by the Registrar at least one month before the date of the next ensuing Commencements. These copies will not be returned.
- (6) The thesis must be approved, both by the supervising Professor and by another Examiner appointed by the Board, as showing evidence of independent inquiry, and of originality either in conclusions or in method; and the Examiners may also, if they think fit, require the candidate to present himself for oral or written examination in connection with the special field of his research.
- (7) Before sending his thesis to the Registrar, the candidate must lodge with the Bursar the Examination Fee of £5, and must inform the Registrar that he has done so.

*Doctor in Laws.*—A candidate for this degree must be either a B.A. and LL.B. of the University of Dublin, or a B.A. and B.C.L. of the University of Oxford, or a B.A. and LL.B. of the University of Cambridge.

#### EXEMPTIONS.

An Indian student who has passed two years in Arts at the Universities of Agra, Allahabad, Annamalai, Bombay, Calcutta, Dacca, Lucknow, Madras, Nagpur, Patna, the Punjab, or Rangoon, and has passed the examinations belonging to that period will be given credit for the first academic year, with this reservation, that, if it should appear that the course in Arts which he has pursued does not include all the subjects of the first academic year in Dublin the student may be required to qualify by examination in the omitted subject or subjects within one month after his name shall have been entered on the books. This is the only concession made to Indian students.

#### HOSTELS.

The College has accommodation for 320 students; rent £7 to £32 per annum; dinner in hall, 14s. a week. The total cost of living in College will amount to approximately £100 per annum. Trinity Hall accommodates 40 women; board and residence £23 10s. to £28 10s. per term of 10 weeks.

*GENERAL NOTE.*—The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Registrar, Trinity College, Dublin, Irish Free State.

## National University of Ireland.

Unless it is otherwise so stated, a student entering on any course must have passed the Matriculation Examination of the National University of Ireland or have been exempted therefrom.

For particulars of the Matriculation Examination, see page 35.

Matriculation Fee, £3.

Faculty.	Length of Course.	Degree.	Tuition Fees for whole Course.			Examination Fees.
			University College, Dublin.	University College, Cork. (h)	University College, Galway. (g)	
DEGREES.						
Arts (Ordinary and Honours) (a)	3 years	B.A.	£ s.	£ s.	£ s.	£ s.
Commerce -	3 years	B Comm.	48 0	48 0	29 10	7 0(j)
Science (Ordinary and Honours).	3 years	B.Sc.	70 1 to 75 0	75 0	40 0	7 0(j)
	4 years	B Agr. Sc.	94 12	—	19 0(b)	10 10(j)
Dairy Science -	4 years	B.Sc. (Dairy-ing)	—	75 0	—	12 10(j)
Engineering -	3 or 4 years (c).	B.E.	(Civil) 74 2 (Mechl.) 96 14	75 0	46 10	10 10(j)
Architecture -	5 years	B.Arch.	93 18	—	No Course	15 10(j)
Law -	3 years	LL.B (d)	22 6	36 0(†)	18 0	8 0(j)
Medicine -	5-6 years	M.B., B.Ch.	162 19	193 10(c)	154 10	14 0(l)
		B.A.O.				
Dentistry -	4-5 years	B D.S.	225 4	205 0(c)	No Course	14 0(k)
DIPLOMAS.						
Higher Diploma in Education.	1 year	—	10 10	10 0	8 10	1 10(l)
Diploma in Celtic Studies	—	—	—	—	8 0	1 0(m)
Diploma in Psychological Medicine.	6 mths.	—	—	4 12	—	2 10(n)
Diploma in Public Health.	12 mths.	—	(f) 31 10	{ Pt. I. 20 0 Pt. II. 12 0 }	No Course	2 10(n)
Diploma in Education.	2 years	—	—	12 12	6 12	2 10(m)
Diploma in Dairy-ing.	2 years	—	—	16 0	—	2 10(m)
Post-graduate Courses.	—	—	9 14 to 12 17	16 0	6 0	—

### NOTES.

(a) Honours Schools in Ancient Classics, Mathematics, Mental and Moral Philosophy, English Language and Literature, Modern Languages, Celtic Studies, Semitic Languages, History, Economics, Legal and Political Science.

- (b) Two of the four years' study required for this degree may be spent in University College, Galway. The other two are spent in the College of Science, Dublin. The fees set forth are for the two years in University College, Galway.
- (c) Civil Engineering requires a three years' course; Mechanical and Electrical, four years at the University College of Dublin, the first two of which may be spent in either Cork or Galway.
- (d) The fees for the LL.B. are in addition to B.A. fees. The degree is taken two years after the B.A.
- (e) Including hospital fees and Preliminary Science Course.
- (f) College subjects D.P.H.
- (g) The fees for University College, Galway, include the membership fees of Students' Societies. The fees for women students are £1 less than those set forth.
- (h) The fees for University College, Cork, include the Students' Clubs' and Societies' fees.
- (i) A three years' course at University College, Cork.
- (j) In addition the Degree Admission Fee is £5.
- (k) In addition the Degree Admission Fee is £11.
- (l) In addition the Diploma Admission Fee is £2.
- (m) In addition the Diploma Admission Fee is £1.
- (n) In addition the Diploma Admission Fee is £3.

#### POST-GRADUATE AND RESEARCH STUDIES.

The M.A., M.Sc., M.Agr.Sc., M.Sc. (Dairying), M.Econ.Sc. can be obtained by graduates of the University after one year's approved course of study, or without attendance on any courses two years after the first degree.

The M.Comm., M.E., M.Arch., M.D.S., can be obtained three years after first degree.

The D.Sc., LL.D., D.Litt., D.Litt.Celt., D.Econ.Sc., D.Mus., on original published work, are open to graduates of the University five years after graduation.

The Ph.D. requires a three years' post-graduate course.

The B.Sc. Public Health requires two years' study after obtaining medical qualification, and the D.Sc. Public Health can be obtained two years after the B.Sc. Public Health.

The M.D., M.Ch., M.A.O. are open to graduates of the University two years after medical qualification. The M.D. Degree is obtainable by examination or on satisfactory published work.

#### STUDENTS' SOCIETIES.

At University College, Cork, there is a Council of the Guild of Students and at University College, Dublin, there is a Students' Representative Council.

At University College, Cork, clubs are provided for men and for women, with restaurant facilities. In addition to the College grounds, special athletic grounds (about 15 acres) adjacent to the College, are provided.

At University College, Galway, there is a College Union for men members. Special rooms are provided for the women students. There is also a Students' Representative Council here (no annual subscription). Each year (a) a man student has to pay a college fee of £2 10s., of which £1 10s. is given to the College Union and other Students' Societies; (b) a woman student has to pay a College fee of £1 10s., of which 10s. is given to Students' Societies.

#### HOSTELS.

University College, Dublin.—University Hall accommodates 70 men students.

There are two hostels for women students, each accommodating 70 students.

*University College, Cork.*—Honan Hostel accommodates Roman Catholic male students only at a charge of £42 for board and residence.

*La Retraite.*—A Hall of Residence for Catholic women students. Charge, £50 8s. per annum for board and lodging.

*University College, Galway.*—The House of Studies, Shantalla, is a hostel for women students. The average cost of board and lodging is £42.

GENERAL NOTE.—*The above general particulars should be verified in each case, and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from :—*

*The Registrar of University College, Cork ;  
The Registrar of University College, Dublin ;  
The Registrar of University College, Galway ;  
or The Registrar, The National University of Ireland, 49, Merrion  
Square, Dublin, C. 17, Irish Free State.*

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SECTION III.

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MEDICINE.

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## MEDICINE.

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There are three ways in which a student may become qualified to practise Medicine in the United Kingdom. They are:—

I. By pursuing the course of study leading to the Final Examination of (a) the Examining Board in England, for the Licence of the Royal College of Physicians and the Diploma of Member of the Royal College of Surgeons (L.R.C.P., M.R.C.S.); or (b) the Society of Apothecaries (Licence M.S.S.A.); or (c) the Scottish Colleges (L.R.C.P. Edin., L.R.C.S. Edin., L.F.F.S. Glasg.); or (d) the Irish Colleges (L.R.C.P. Irel., L.R.C.S. Irel.); or (e) the Apothecaries Hall, Dublin.

II. By pursuing the necessary course of study and obtaining a Degree in Medicine of one of the Universities of the United Kingdom.

III. By pursuing a course of study and by passing an Examination for and obtaining a Degree or Diploma outside the United Kingdom which is recognised for registration by the General Medical Council.

It should be noted that the right to practise in the United Kingdom in virtue of the above-mentioned qualifications is conferred by registration in the Medical Register of the General Medical Council.

### I.—Qualifications obtainable in the United Kingdom.

A student desiring to obtain an English Medical Qualification must first satisfy the preliminary educational requirements laid down by the authority concerned. If his aim is the L.R.C.P., M.R.C.S., he must pass a preliminary examination in accordance with the requirements of the Examining Board in England (*see* page 195), and if it is a University Degree in Medicine, he must satisfy the conditions laid down for the particular Matriculation Examination concerned (*see Section I of this Handbook*).

#### REGISTRATION AS A MEDICAL STUDENT BY THE GENERAL MEDICAL COUNCIL.

No person can be registered as a medical student by the General Medical Council unless he has attained the age of 17 years; has passed a preliminary examination recognised by the General Medical Council and in addition an Examination in Elementary Physics and Elementary Chemistry conducted or recognised by one of the Licensing Bodies; and has produced evidence that he has commenced medical study at a University or School of Medicine.

The Preliminary Examination must include the following subjects:—(i) English, (ii) Elementary Mathematics, (iii) a language other than English, (iv) an additional subject or subjects as required by the regulations of the examination, to be chosen from the subjoined list, *viz.*, History, Geography, Botany,

Physical Science, Natural Science, Latin, Greek, Hebrew, French, German and other language accepted by the University for the purpose of Matriculation or Entrance.

*Examinations recognised unconditionally.—*

(A) The Final examinations for Degrees in Arts and Science of any University of the United Kingdom or of the British Dominions.

(B) University Examinations: Responsions (Oxford), Previous (Cambridge), Preliminary (Scottish Universities), Matriculation Examination admitting to the Faculties of Medicine, Arts or Pure Science of any of the Universities in the United Kingdom;

(C) All examinations of Colonial and Indian Universities which are accepted by one or more of the above Universities as equivalent to their Matriculation examination. The General Medical Council has recommended that the minimum standard of general education to be required from students presenting certificates obtained in India, who desire to register as Medical Students in England, shall be the Intermediate Examination in Arts or Science of an Indian University, or an examination accepted by an Indian University in lieu thereof. The Certificate should include the subjects of English and Mathematics. A further period of study leading up to the passing of a Pre-Medical examination in Elementary Chemistry and Elementary Physics (Theoretical and Practical) should also be required.

*Examinations recognised provided that the required subjects are taken.*—Examinations, such as the Cambridge School Certificate, the College of Preceptors (England) Senior Certificate (subjects must be passed with "Credit") (*see* page 202), and the Preliminary Medical Certificate of the Educational Institute of Scotland, accepted by any of the Universities above mentioned as equivalent to Matriculation may also be recognised. The required subjects must be offered on not more than two certificates.

Registration by the General Medical Council as a student is required by the majority of the Licensing Bodies, but it is not a compulsory requirement everywhere.

There is no fee for Registration as a Medical Student.

Applications for registration can be addressed through the University Bureau or Local Advisory Committee in India and the High Commissioner for India (Education Department), London, or direct to the Registrar of the General Medical Council, 44, Hallam Street, Portland Place, London, W.1.

### L.R.C.P., M.R.C.S.

#### PRELIMINARY EXAMINATION IN GENERAL EDUCATION.

The Preliminary Examination in General Education must be passed before the commencement of Medical Study for the L.R.C.P., M.R.C.S., and before the Pre-Medical Examination

in Science is taken. The required subjects are: (a) English; (b) Mathematics; (c) a language other than English; (d) a second language other than English, or one of the following subjects: namely, Higher Mathematics; History; Geography; Chemistry; Physics; Botany; Zoology; Biology; Geology.

All the subjects must be passed at one or two Examinations. The following examinations are recognised as exempting from the Preliminary Examination:\*

(a) Cambridge School Certificate (Senior Local), provided the examination is passed in not more than two parts and provided that the Certificate includes a "pass with credit" in four subjects, namely:—one credit in English or History in Group I: one credit in each of Groups II and III: and a fourth credit in any other subject not already taken in Groups I, II, or III, or in Drawing only in Group IV.

(b) A First Class Intermediate Certificate of one of the recognised Universities, or Boards of Intermediate Education, in India, provided that the subjects include English, Mathematics, a Language other than English, Chemistry or Physics. The Universities recognised for this purpose are: Bombay, Calcutta, Lucknow, Madras, Patna, Punjab, and Rangoon.

#### PRE-MEDICAL EXAMINATION IN CHEMISTRY AND PHYSICS.

After the Preliminary Examination in general education has been completed, all medical students are required to pass the Pre-medical Examination in Chemistry, Physics and Biology. For the conditions of this Examination the Regulations of the Board in England should be consulted.

*Exemptions.*—Candidates who produce satisfactory evidence that they have passed

(a) in Chemistry, Physics and Biology or in any of these subjects as group or main subjects at the Cambridge University Higher Schools Certificate; or

(b) an Examination in Chemistry, Physics and Biology or in any of these subjects for the Degree in Medicine of a University in the British Empire recognised by the Examining Board in England, or for a qualification registrable in this country but granted by a recognised medical college in the British Dominions overseas, will be exempted from further examination in the subject or subjects in which they have passed.

*Date.*—This examination is held in the months of January, March or April, July, September or October.

*Fees.*—Fees for admission and re-admission to the Pre-medical examination are:

Part 1. Chemistry, £2 2s.; Physics, £1 1s.

Part 2. Elementary Biology, £1 1s.

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\* Only examinations which can be taken in India have been included.



## PROFESSIONAL EXAMINATIONS.

*(These regulations apply to all medical students.)*

Students are required to complete five years' professional study after passing Part I of the Pre-Medical Examination in Science.

There are two professional examinations called the First Professional Examination and the Final Professional Examination, which are held, as a general rule, in the months of January, April, July and October.

### THE FIRST PROFESSIONAL EXAMINATION.

*Subjects :—*

Section I.—(a) Anatomy, including Histology and Embryology, and (b) Physiology, including Bio-Chemistry :

Section II.—Pharmacology and Materia Medica.

Candidates may present themselves for the two sections together or separately, but they must take Parts (a) and (b) of Section I together until they have passed in one or both Parts. Candidates will not be allowed to pass in one Part of Section I unless they obtain at the same time at least half the number of marks required to pass in the other Part.

Section II of the Examination may be passed at any time before the Candidate enters for the Final Professional Examination provided that the courses required for admission to Section I have been completed.

Before admission to the First Professional Examination Candidates must produce evidence of having attended—

For Section I :—

- (1) Courses of instruction in Anatomy, including Embryology, during five terms,\* during which they must have dissected the whole body.
- (2) Courses of instruction in Physiology, including Bio-Chemistry and Bio-Physics, during five terms.
- (3) A course of instruction in Histology.

For Section II :—

Courses of instruction in Pharmacology and Materia Medica.

The Course of Study for the first Professional Examination may be commenced as soon as Part I of the Pre-medical Examination has been passed, but not more than two terms of such study will be recognised before Part II of the Pre-medical Examination has been passed.

The fee for this Examination is £10 10s.

Candidates who produce satisfactory evidence of having passed in any of the subjects of the First Examination at an examination for a Degree in Medicine conducted at a recognised University in the United Kingdom, in India, or in a British Colony will be exempt from examination in the subjects in which they have passed.

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\* A term = three months.

## THE FINAL PROFESSIONAL EXAMINATION.

*Subjects:—*

SECTION I.—Pathology, including Morbid Anatomy, Morbid Histology, Clinical Pathology and Bacteriology.

## SECTION II.

PART I.—Medicine, including Medical Anatomy, Forensic Medicine and Public Health;

PART II.—Surgery, including Surgical Anatomy and the use of Surgical appliances;

PART III.—Midwifery and Gynæcology.

For admission to this Examination candidates must produce evidence of having attended the necessary lectures at the recognised Medical Schools and of having attended the necessary practice at the recognised Hospitals; of having discharged the duties of Medical Clinical Clerks in the various wards; of having attended Clinical Demonstrations at recognised Lunatic Asylums; of having attended five labours conducted by a Member of the Staff of an appointed Hospital and of having subsequently conducted fifteen labours; of having received instruction in Vaccination and of being 21 years of age. (Note: the Certificate of Proficiency in the practice of Vaccination must be obtained from an authorised Government teacher in Great Britain.)

Candidates may take Sections I. and II. and the three Parts of Section II. of this Examination separately, or they may present themselves for the whole Examination at one time.

Candidates who have passed both Sections of the First Professional Examination will be admissible to either Section or any part of Section II. of the Final Examination on production of the required Certificates for the Section or Parts, on the expiration of an interval of not less than 24 months, provided that the whole Examination is not completed before the expiration of five academic years of professional study (57 months), including clinical work extending over 33 months at a recognised Medical School and Hospital after passing Section I. of the First Professional Examination.

The fees for admission to the Final Examinations are as follows:—

		First admission.		Each subsequent admission.	
		£	s.	£	s.
Section I.	Pathology and Bacteriology	4	4	3	3
Section II.	{ Part I. Medicine ...	10	10	6	6
	{ Part II. Surgery ...	10	10	6	6
	{ Part III. Midwifery and Gynæcology	6	6	5	5

No exemption is granted from any subject of the Final Examination.

(*Note*.—Candidates are required to pass all three Parts of Section II within a period not exceeding twenty-five months.)

#### SPECIAL REGULATIONS FOR CANDIDATES FROM INDIA.

(i) A Graduate in Medicine and Surgery (M.B., B.S., or B.Ch.) of a recognized University in India\* is required to pass the Final Examination, the subjects of which are set out on page 182. He is admissible thereto on producing satisfactory evidence of such Graduation, a certificate of proficiency in the practice of vaccination from a Government Teacher in this country, and a certificate of age.

**FEES.**—He is required to pay the fees for admission to the examination, and after he has passed the Final Examination a further fee of Ten Guineas must be paid before the Diplomas of L.R.C.P., M.R.C.S. are granted.

(ii) An Undergraduate of the Medical Faculty of a University in India is required to produce complete detailed certificates showing the subjects, duration of the courses, and examinations, including Matriculation, which he has completed for the Degrees in Medicine and Surgery of his University (*the production of University Regulations or a Calendar is not sufficient*). He is exempted from such courses and examinations as correspond to those he has completed for the Medical Degrees (M.B., B.S., or B.Ch.) of his University.

Only the courses and examinations leading to the M.B., B.S. Degrees are recognized.

He is required to produce satisfactory evidence (a) of having passed an Examination in Chemistry, Physics, and Biology for the same Degrees, in addition to the Intermediate Examination in Arts or Science, or (b) of having passed the University Examination in Anatomy and Physiology for these Degrees.

No exemption is granted from any subject of the Final Examination of this Board.

**FEES.**—If he has passed the subjects of the First Examination of this Board for the Medical and Surgical Degrees of his University he is required to pay a fee of Five Guineas for admission to Section I and to each Part of Section II of the Final Examination (Twenty Guineas in all). When he has passed the Final Examination a further fee of Twenty Guineas must be paid before the Diplomas of L.R.C.P., M.R.C.S. can be granted.

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\* The Universities recognised are Bombay, Calcutta, Punjab, Lucknow Madras, Patna and Rangoon.

(iii) A candidate holding any Qualification granted in India (other than the Degrees in Medicine and Surgery of a recognized University) which entitles him to Provincial Registration in India, and who has completed his entire curriculum in a recognised\* University or Government Medical College, is admissible to the Examinations for the Diplomas of L.R.C.P., M.R.C.S. under the following conditions, viz. :—

(a) He is required to pass a recognized Preliminary Examination in General Education in Great Britain and Ireland unless he produces the certificate of the Intermediate Examination in Arts or Science of a recognized University or Board of Intermediate Education in India. This certificate, together with the Matriculation Certificate, must include the subjects of English, Mathematics, a language other than English, and Chemistry or Physics or Biology. (A modern Oriental Language is accepted for the language other than English.)

(b) He is exempted from the Pre-Medical Examinations of this Board (Chemistry, Physics, and Biology), subject to the production of satisfactory detailed certificates showing the courses and examinations completed prior to qualification; he is then admissible to the First Examination in Anatomy, Physiology, Materia Medica, and Pharmacology. After passing in Anatomy and Physiology, he is required to follow for twenty-four months the medical and surgical hospital practice of a recognized Medical School and Hospital, or of a recognized General Hospital, in Great Britain and Ireland before he can complete the Final Examination. He is admissible to Section I, or one Part of Section II, of the Final Examination on completion of eighteen months of such hospital practice, the production of a certificate of proficiency in the practice of vaccination from a Government Teacher in this country, and a certificate of age.

(iv) No concessions are granted to other Candidates from India, and no variations of the above conditions are granted on account of study or practice subsequent to Qualification.

It cannot be too forcibly stated that candidates who desire to obtain either the L.R.C.P., M.R.C.S., or any other Diplomas granted by the Royal Colleges of Physicians and Surgeons in London, should, in their own interests, ascertain from the Secretary of the Examining Board, Examination Hall, Queen Square, London, W.C.1—either direct or through the University Information Bureaux of the Advisory Committees—prior

\* Notes: (i) The following Colleges only are recognised by the Board under this paragraph of the Regulations, viz.:—The Lahore Medical College, The Lady Hardinge Medical College for Women, King George's Medical College, Lucknow, Patna Medical College, Calcutta Medical College, Carmichael Medical College, Grant Medical College, Seth Goculdas Medical College, Madras Medical College, Vizagapatam Medical College, Rangoon Medical College.

to leaving India, the exact conditions they would have to fulfil. They should state exactly what course of study they have completed in India, so that they may be informed what documents to bring to this country. Students, when coming to England, should in all cases bring with them the originals of all the documents required. The Certificates should completely cover their professional study in India. Without these certificates they will not be admissible to the Examinations.

# MEDICAL SCHOOLS AND HOSPITALS IN ENGLAND, WALES, SCOTLAND, IRELAND AND INDIA AT WHICH THE CURRICULUM OF PROFESSIONAL EDUCATION MAY BE COMPLETED.

## ENGLAND AND WALES.

LONDON.—St. Bartholomew's, St. Thomas's, Guy's, St. George's, London, Middlesex, University College, King's College, Westminster, Charing Cross, St. Mary's, Royal Free Hospital and School of Medicine for Women.

### *Provincial.*

BIRMINGHAM.—The University, with General Hospital or Queen's Hospital.

BRISTOL.—The University, with Royal Infirmary or General Hospital.

CAMBRIDGE.—The University, with Addenbrooke's Hospital.

CARDIFF.—The Welsh National School of Medicine, with King Edward VII. Hospital (Royal Infirmary).

DURHAM.—The University, with Newcastle-upon-Tyne Royal Victoria Infirmary.

LEEDS.—The University, with General Infirmary.

LIVERPOOL.—The University, with Royal Infirmary, Royal Southern Hospital, David Lewis Northern Hospital, Stanley Hospital, or United Hospitals Clinical School.

MANCHESTER.—The Victoria University, with Royal Infirmary.

NEWCASTLE-UPON-TYNE (*see* Durham).

SHEFFIELD.—The University, with Royal Infirmary or Royal Hospital.

## SCOTLAND.

ABERDEEN.—The University, with Royal Infirmary.

EDINBURGH.—The University, with Royal Infirmary, The School of Medicine, with Royal Infirmary.

GLASGOW.—The University, Anderson's College, and St Mungo's College, with the Royal Infirmary, Western Infirmary, and Victoria Infirmary.

ST. ANDREWS.—The University, with the Dundee Royal Infirmary.

## IRELAND.

BELFAST.—Queen's University, with Royal Victoria Hospital, or Mater Infirmorum Hospital.

CORK.—National University of Ireland, University College, with North and South Infirmaries.

DUBLIN.—Medical Schools: The Royal College of Surgeons, including Carmichael College and Ledwich School; Trinity College; National University of Ireland.—Hospitals: Dr. Steevens', Richmond, City of Dublin, Mercer's, Meath, Jervis Street, St. Vincent's, Adelaide, Mater Misericordiae, and Sir Patrick Dun's.

GALWAY.—National University of Ireland, University College with County Infirmary and Town Hospital.

## INDIA.

BOMBAY.—The University.

CALCUTTA.—The University.

LAHORE.—The University of the Punjab.

LUCKNOW.—The University.

MADRAS.—The University.

PATNA.—The University.

RANGOON.—The University.

## College of Preceptors.

The Senior Certificate Examination (credit standard) is recognised as a Preliminary Examination in General Education provided that the required subjects specified above have been taken.

The Senior Certificate Examinations are held at Midsummer and Christmas in each year and Senior Certificate Examinations for Candidates who desire to qualify for some Professional Preliminary purpose are also held in March and September.

There is no limit in respect of the age of candidates and they can take the examinations in London and various other towns in England.

To qualify for a Senior Certificate a candidate must at one and the same examination pass in English and in at least five of the following subjects:—

\*Scripture.

History.

Geography.

Arithmetic.

Algebra.

Geometry.

\*Trigonometry.

Mechanics.

\*Mensuration.

\*Book-keeping.

French.

German.

\*Spanish.

\*Welsh.

Latin.

\*Ancient Greek.

Light and Heat.

Magnetism and Electricity.

Inorganic Chemistry.

\*Physiology and Hygiene or  
Hygiene and Domestic  
Science.

Botany.

\*Drawing.

\*Political Economy.

Subjects marked with an asterisk cannot be taken in March or September.

It should be noted that in the case of candidates who desire to qualify for some professional purpose the College is prepared to arrange for examination in languages, which may include Oriental languages, other than those mentioned; also that candidates who have partly qualified at examinations conducted by other Boards may enter for one or more individual subjects at the College examination for the purpose of completing their qualification.

The examination fee is 25s. to which must be added a local fee varying from 5s. to 15s.; an additional fee of £3 3s. is payable for a language not mentioned in the list above. Entry forms must be completed and returned at least six weeks before the commencement of the examination.

*Fuller information and entry forms can be obtained either through the University Bureau or the Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Secretary to the College of Preceptors, Bloomsbury Square, London, W.C.1.*

### Scottish Medical Qualifications.

THE ROYAL COLLEGE OF PHYSICIANS OF EDINBURGH,

THE ROYAL COLLEGE OF SURGEONS OF EDINBURGH,

THE ROYAL FACULTY OF PHYSICIANS AND SURGEONS OF GLASGOW.

These Colleges have made arrangements by which, after one series of examinations, held in Edinburgh or Glasgow, candidates may obtain the Diplomas of the three bodies. This is known as the Triple Qualification (of the above three Corporations) (L.R.C.P.Edin., L.R.C.S.Edin., L.F.P.S.Glasg.). The course lasts for five years, and is similar to that required for the qualification of the Conjoint Board of England.

(The three Corporations grant their Single Licence only to candidates who already possess qualifications in Medicine or Surgery registrable in Great Britain.)

A student must pass a Preliminary Examination in General Education recognised by the General Medical Council and a Pre-Registration Examination in Chemistry and Physics and must be a registered medical student.

The four Professional Examinations are :—

(1) First Examination : Biology ; Chemistry and Physics.

(2) Second Examination : Anatomy, including Embryology and Practical Anatomy, and Physiology and Histology, Bio-Chemistry and Bio-Physics. This may be taken at the end of the second year of medical study.

(3) Third Examination: Pathology and Materia Medica with Pharmacology, and Serum and Vaccine Therapy.

(4) The Final Examination: (1) Medicine, including Therapeutics, Applied Anatomy and Physiology, and Clinical Pathology with Practical Medicine; (2) Surgery, including Applied Anatomy and Physiology, Clinical Pathology, with Practical Surgery; (3) Midwifery and Diseases of Women, Clinical Obstetrics and Gynæcology, with Practical Midwifery; and (4) Medical Jurisprudence and (5) Public Health. Medical Jurisprudence and Public Health may be taken at any time after passing the Third Examination on production of certificates of curriculum. Medicine, Surgery, and Midwifery must be taken together and not earlier than on the conclusion of five Winters and five Summers of Medical Study, provided that a period of thirty-three months has elapsed since passing the Second Professional Examination.

In addition to the Written and Oral Examinations, all Candidates shall be subjected to Clinical Examinations in Medicine, Surgery, Midwifery, and Gynæcology, which shall include the Examination of Patients, Physical Diagnosis, the Clinical use of the Microscope and of other instruments, Clinical Chemistry, Surgical Appliances, Bandaging, Surface markings, Skiagrams, etc. The Oral Examination shall include the recognition of specimens. All Candidates for the Final Examination must complete the three portions (Medicine, Surgery, and Midwifery) within a period of nineteen months.

*Fees.*—First Examination, £5; Second Examination, £5; Third Examination, £5; Final Examination, £15.

*Dates.*—The examinations are generally held in the months of January, April, July, September.

#### EXEMPTIONS.

Candidates for the Triple Qualification must register as medical students with the General Medical Council in this country.

Exemption is granted from examination in either or all of the first three examinations on production of a certificate of being in possession of a qualification recognised by the three bodies. The Universities in India (but not individual Colleges) are recognised under the same conditions as by the Conjoint Board of England, but the only curriculum and examinations recognised are those properly certified as having been taken at a University in India for a *degree* (not a "qualification"), which is registrable in the Colonial Part of the British Register.

Candidates who hold the sub-Assistant Diploma, the Hospital Assistant Diploma, the Certificate of Registration as an L.M.P. under the various Medical Councils in India, the Licentiate'ship or Membership of any of the College of Physicians and Surgeons



in India, are not recognised in any respect either as regards curriculum or examinations passed.

*Fuller information can be obtained either through the University Bureau or Local Advisory Committee in India and the High Commissioner for India (Education Department), London, or direct from Mr. David Thomson, 18, Nicolson Street, Edinburgh; or to Mr. David Willox, Faculty Hall, 242, St. Vincent Street, Glasgow.*

### Society of Apothecaries of London.

The student can obtain the Diploma of the Society in Medicine, Surgery and Midwifery (L.M.S.S.A. Lond.), a registrable medical qualification, by completing the course and passing the examinations laid down. He is first required to pass a preliminary examination recognised by the General Medical Council and to become a registered medical student (see page 194).

The examinations of the Society of Apothecaries are as follows :—

#### PRE-MEDICAL EXAMINATION IN SCIENCE.

The Pre-Medical Examination is held quarterly on the first Monday and following Wednesday and Thursday in the months of January, April, July and October, and consists of two parts, viz. :—

Part I.—Chemistry (including elementary organic chemistry) and Physics.

Part II.—Elementary Biology.

The examination in each part is written, practical and oral.

Part I and Part II may be taken together or separately; but a candidate must pass in both subjects of Part I before commencing the professional curriculum, and not more than two terms of instruction in Anatomy and Physiology at a recognised Medical School will be recognised before Part II is passed.

Candidates must present themselves for examination in both subjects of Part I together (unless duly exempted from either) until they have reached the required standard to pass in both or in one subject; but no Candidate will be allowed to pass in one of the subjects without obtaining at the same time at least half the marks required to pass in the other subject.

Candidates must give fourteen days' notice in writing of their intention to take the examination. Entry forms must be accompanied by the necessary fee and by a Schedule (obtainable from the Registrar), signed by the Principal of the institution concerned or other approved authority, certifying that the instruction required under the Regulations had been received.

**FEES.**—The fees for examination and re-examination are as follows :—

Part I.—Chemistry	...	...	£2	2	0
Physics	...	...	1	1	0
Part II.—Elementary Biology	...	...	2	2	0

### THE PRIMARY EXAMINATION.

Primary Examinations are held quarterly on the first Monday and following Wednesday and Thursday in the months of January, April, July and October, and comprise the following subjects :—

- i. Anatomy. Written, Oral, and Practical.
- ii. Physiology. Written, Oral and Practical.
- iii. Materia Medica and Pharmacy.

Materia Medica and Pharmacy may be passed any time before the Candidate enters for the Final Examination.

In the case of Candidates registered between January 1st, 1923, and July 31st, 1930, a Certificate of satisfactory attendance at a course of Elementary Biology is required to be produced prior to the Primary Examination. The course may be taken concurrently with the study of Chemistry and Physics for the Pre-Medical Examination.

A Candidate is required to present himself for Examination in Anatomy and Physiology together until he has reached the required standard to pass in one or other of those subjects; but no Candidate will be allowed to pass in one of the subjects without obtaining at the same time at least half the marks required to pass in the other subject.

Candidates referred in Anatomy or Physiology will be required to produce evidence of further study before being admitted to re-examination, including in the case of Anatomy a certificate of further work in the dissecting room.

Prior to admission to the Primary Examination candidates must submit certificates of having completed the study required under the Regulations at a Medical School recognised by the Society.

Fees.

	£	s.	d.
At First Entry ... ..	5	5	0
Re-examination in Anatomy and/or Physiology ... ..	3	3	0
Re-examination in Materia Medica ... ..	3	3	0

### THE FINAL EXAMINATION.

The Final Examination is held monthly (except in September) and consists of :—

(1) The Examination in Surgery on the second Monday and following Wednesday and Thursday.

(2) The Examination in Medicine, Forensic Medicine, and Midwifery on the third Monday and following Wednesday and Thursday.

A.—Written and Oral Examination in the Principles and Practice of Surgery, Surgical Pathology, and Surgical Anatomy, and an Oral Examination in Surgery, Surgical Pathology, Operative Manipulation, Surgical Anatomy, Instruments and Appliances. Clinical Surgery.

**B.**—Written and Oral Examination in the Principles and Practice of Medicine, including Therapeutics, Pharmacology and Prescriptions, and a written and Oral Examination in Pathology, Bacteriology and Morbid Histology. Clinical Medicine.

**C.**—Written, Oral and Clinical Examination in Midwifery, Gynæcology, and Diseases of New-born Children.

Obstetric Instruments and Appliances.

Written and Oral Examination in Forensic Medicine,

**D.**—Written and Oral Examination in Forensic Medicine, Hygiene, Theory and Practice of Vaccination, and Mental Diseases.

**A, B + D, and C** may be taken at separate Examinations.

Prior to admission to the Final Examination candidates must submit the certificates (a) of having passed the Primary Examination (b) of having completed the study required under the Regulations at recognised Hospitals and Medical Schools (c) of being 21 years of age, and (d) of being of good moral character.

*Fees.*

	£	s.	d.
At First Entry ... ..	*21	0	0
Re-examination in <b>A</b> , Surgery ... ..	5	5	0
Re-examination in <b>B + D</b> Medicine ... ..	5	5	0
Re-examination in <b>C</b> , Midwifery ... ..	5	5	0

Candidates who begin their professional studies on or after January 1st, 1932, will be required to complete the whole of the Final Examination (Medicine and Forensic Medicine, Surgery, and Midwifery) within a period not exceeding 25 months. In cases where the period has been exceeded, it will be necessary for Candidates to pass again in any subject or subjects in which they may have already satisfied the Examiners, until this Regulation is complied with.

*Exemptions.*—The policy with regard to the grant of exemptions from the Pre-Medical and Primary Examinations, or parts thereof, on account of courses taken, examinations passed, and licences or diplomas obtained in India, is governed by the *Special Regulations* detailed on pages 199 to 200.

There is no exemption from any part of the Final Examination.

*General Instructions.*—Candidates intending to present themselves for Examination are required to give 14 days' notice. A form for this purpose will be sent on application. All required Certificates, with the notice for examination and the fee, must be forwarded to the Registrar, Society of Apothecaries, Water Lane, Queen Victoria Street, E.C.4.

Candidates who have passed in Anatomy and Physiology will be admitted to a part of the Final Examination at the expiration of Two years (24 months) thereafter provided that the whole Examination is not completed before the expiration of Five

\* The fee for the Final Examination is 20 guineas, unless 5 guineas has previously been paid for the Primary Examination, in which case the fee is 15 guineas.

Academic years (57 months) of study at a Recognised Medical School, including Three Academic years (33 months) of Clinical Work after passing in Anatomy and Physiology.

*Fuller information can be obtained either through the University Bureau or Local Advisory Committee in India and the High Commissioner for India, Education Department, London, or direct from the Registrar, Society of Apothecaries of London, Water Lane, Queen Victoria Street, E.C.4.*

### The Apothecaries' Hall of Ireland.

After passing the Preliminary Scientific Examination candidates shall be subjected to Three Professional Examinations called the First Professional Examination, the Second Professional Examination, and the Final Examination.

The subjects of the Examinations are as follows:—

First Professional:—Anatomy, Biology, Physiology and Histology, including Bio-Chemistry.

Second Professional:—Materia Medica, Pharmacy and Therapeutics, Pathology, Medical Jurisprudence and Hygiene.

Final Professional:—Section A—Medicine and Clinical Medicine, and Clinical Methods.

Section B—Surgery, Clinical Ophthalmic and Operative, and Surgical Anatomy.

Section C—Midwifery and Gynaecology; Practical Pharmacy and Materia Medica and Therapeutics, if not taken at the Second Professional Examination.

Before admission to these Examinations, candidates must produce evidence of having completed the study required under the regulations and of having passed the preceding Professional Examinations. The course of medical study must extend over a period of five academic years (57 months) and must have been pursued at a Medical School recognised by the Hall. The Diploma will not be conferred on any candidate under the age of 21 years.

	£	s.	d.
Fees: First Professional ... ..	10	10	0
Second Professional ... ..	10	10	0
Final ... ..	21	0	0

(or for Sections A, B, C, taken separately, £10 10s.)

If the previous Examinations have been passed elsewhere the Final Examination Fee will be £26 5s.

#### SPECIAL REGULATIONS.

Members of recognised Universities in the British Possessions whether Graduates or not, who have passed such an examination or examinations at their Universities for the Degree of Doctor or Bachelor of Medicine and Surgery as shall comprise the subjects of the First and Second Professional Examination

and who have completed the Medical Study required by the Regulations, will be admissible to a part of the Final Examination twenty-four months after passing in Anatomy and Physiology on producing the required Certificates of Study, provided they do not complete the examination until the full curriculum of fifty-seven months of Professional Study has been completed, including Clinical study extending over thirty-three months, after passing the Examination in Anatomy and Physiology.

Candidates who hold a qualification, entitling them to practice Medicine, Surgery and Midwifery—granted in India, other than the Degrees of Bachelor or Doctor of Medicine and Surgery of one of the Universities in India recognised by The Hall, are admissible to the Examinations for the L.A.H. Dublin, under the following conditions:—

(a) A Candidate holding a Licence in India, obtained after training in a Medical SCHOOL—whether he has completed four or five years' curriculum—is required:—

(i) To pass a Preliminary Examination in General Education, in accordance with the registration requirements of the General Medical Council.

(ii) To pass the First Professional Examination in Anatomy and Physiology.

(iii) To complete two years' (twenty-four months) Medical and Surgical Hospital Practice in a recognised Medical School and Hospital either in this country or in Great Britain after passing the First Professional Examination. Admission to one subject of the Final Examination is allowed after eighteen months of such Hospital Practice.

(b) A Candidate holding a Licence or other qualification in India after a full curriculum in a recognised Medical COLLEGE of not less than five years, is required to fulfil the same conditions as in paragraph (a) (above), with the following exception, viz.:—

(i) One year (twelve months) only of Hospital Practice is required before admission to the Final Examination.

(c) Candidates who have completed the curriculum at a Medical SCHOOL, but who have not obtained a Licence or other qualification in India, are required to pass the Preliminary Examination in General Education and the Pre-Medical Examination, to complete the full curriculum as set out in the Regulations, and to pass the First, Second and Final Professional Examinations.

(d) Candidates who have completed a part of the curriculum required by the Regulations of the Hall at a recognised Medical COLLEGE, but who have not obtained a Licence or other qualification in India, are required to pass a recognised Preliminary Examination in General Education, but are exempted from the Pre-Medical Examination;

and are allowed to count such part of the curriculum thus completed in India. They are required to pass the First Professional Examination and to complete the full curriculum, as set out in the Regulations, before admission to the Final Examination.

*Fuller particulars and the necessary Schedules can be obtained either direct from the Registrar, Apothecaries' Hall of Ireland, 95, Merrion Square, Dublin, Ireland, or through the University Bureau or the Local Advisory Committee in India and the High Commissioner for India (Education Department) London.*

## II.—University Medical Degrees.

The University Qualifying Courses vary in detail but conform generally to the conditions of the Conjoint Examination. They all require a preliminary educational qualification—generally the Matriculation of the University concerned—and last from five to five and a half years. (For details of fees, conditions of admission, &c., see under the University concerned in *Section II.*) It should be noted that, at these Universities, students can generally work for the Conjoint Examination, either by itself or together with the University Degree. The exemptions granted for the Degree vary according to the University concerned.

### UNIVERSITY OF BIRMINGHAM.

This University confers the Degrees of M.B., Ch.B. The course extends over six years including the first year course in Physics, Chemistry and Biology. At least three years must be spent in attendance at the University after registration as a medical student. A student must have passed the Matriculation Examination of the Northern Universities Joint Matriculation Board or an Examination accepted in lieu thereof (pages 12-18).

### UNIVERSITY OF BRISTOL.

This University confers the Degrees of M.B., Ch.B.

Candidates are required to matriculate at the University. (See page 2.) The course lasts at least five years after the passing of the Preliminary Science Examination and the commencement of professional study, of which three years must have been spent at the University of Bristol, two at least being subsequent to passing the Second Examination.

### UNIVERSITY OF CAMBRIDGE.

This University confers the Degree of M.B. A student must be a member of the University, either as a collegiate or a non-collegiate student, and must keep nine terms by residence in the University (see pages 46-53). He must pass the Previous Examination or obtain exemption therefrom (see pages 4-5). The course lasts five years, and the final two years' work can be taken in a recognised medical school. It is possible for a candidate to take all four parts of the First M.B. before Matriculation

if his name is sent in through a College or Fitzwilliam House which is prepared to accept him for the course, and by so doing he may save a year *before going into residence*.

After the First M.B. a student is required to pass a Qualifying Examination in Anatomy and Physiology, an Oral Examination in Pharmacology and the Final Examination in Surgery, Midwifery, Medicine, Pathology and Pharmacology. The normal course would be for the student to take the Natural Science Tripos, including the subjects of Anatomy and Physiology, and thus satisfy the requirements of the Qualifying Examination, and then proceed to the Clinical portion of his curriculum, which is usually pursued at one of the London Medical Schools.

Exemption from parts of the Medical Course may be granted for professional examinations passed in India on application to the Faculty Board of Medicine. Students from recognized Universities are entitled to apply.

Students at Girton and Newnham are admitted to the First and Second M.B. Examinations under certain conditions.

The course should be commenced at the beginning of September.

#### UNIVERSITY OF DURHAM.

This University awards the Degrees of Bachelor of Medicine and Bachelor of Surgery, M.B., B.S. The full course is five years after registration by the General Medical Council (*see page 194*) and it is a requirement that at least three of the five years' professional education shall be spent in attendance at the College of Medicine, Newcastle-on-Tyne. All the professional examinations of the University of Durham must be passed, and no exemption from them will be granted by virtue of examinations passed in India.

#### UNIVERSITY OF LEEDS.

This University confers the Degrees of M.B., Ch.B.

Candidates must attend courses of instruction approved by the University extending over not less than five and a half years, two of such years at least having been passed in the University of Leeds.

Candidates must pass the Matriculation Examination of the Joint Board (including Mathematics as a subject of examination) or an examination accepted in lieu thereof (*see pages 12-18*).

#### UNIVERSITY OF LIVERPOOL.

This University confers the Degrees of M.B. and Ch.B. Candidates must have passed the Matriculation Examination of the Joint Board or such other examination as may from time to time be recognised for this purpose (*see pages 12-18*) and have included Mathematics among the subjects in which they have passed at such examination.

## UNIVERSITY OF LONDON.

This University confers the Degrees of M.B., B.S. The student must pass the Matriculation Examination (*see* pages 19-25) or obtain exemption therefrom, and the course lasts five-and-a-half years. It should be commenced at the beginning of the October Session.

Certificates for the complete course of Medical Education (except Fevers and Insanity) for Internal Students are received from the following Institutions :—

- St. Bartholomew's Hospital and Medical College.
- \*Charing Cross Hospital and Medical School.
- \*St. George's Hospital and Medical School.
- Guy's Hospital and Medical School.
- \*King's College Hospital and Medical School.
- London Hospital and Medical College.
- St. Mary's Hospital and Medical School.
- Middlesex Hospital and Medical School.
- St. Thomas's Hospital and Medical School.
- \*University College Hospital and Medical School.
- \*Westminster Hospital and Medical School.
- Royal Free Hospital and London School of Medicine for Women.

*External* students of the London University can study at any Institution† recognised by the University for the purpose and can take the examinations on production of necessary evidence of having pursued the courses laid down, provided that the prescribed intervals between the examinations are observed and the regulations complied with in all respects. *External* Students are not required to follow courses of study in preparation for the First Medical Examination, or the Second Medical Examination, Part I. One year at least of the four-and-a-half years during which an *External* Student must be engaged in professional studies subsequently to passing the First Examination for Medical Degrees must be spent at one or more of the recognised Institutions in the United Kingdom. It should be noted that the various examinations must be taken in England, and that the recognised period of study can only be reckoned from the date of Matriculation at the London University (*see* pages 19 and 74).

Certain exemptions may also be granted to *Internal* Students (*see* page 74).

Women are not at present admitted to the following Medical Schools, viz. :—Charing Cross, St. Bartholomew's, St. George's, Guy's, London, Middlesex, St. Mary's, St. Thomas's, Westminster. The London (Royal Free Hospital) School of Medicine for Women, is for women only.

\* The students of this Hospital receive instruction in preparation for the First and Second Examinations for Medical Degrees at University College or King's College.

† A list of these Institutions (which includes some in India) is contained in the Appendix to the Regulations in Medicine for *External* Students, published by the University.



The courses for the first M.B., either as Internal or External Student, can also be taken at Queen Mary College (*see* page 95) or the Chelsea Polytechnic (*see* page 119).

#### UNIVERSITY OF MANCHESTER.

This University confers the Degrees of M.B., Ch.B.

Candidates for degrees of M.B., Ch.B., must furnish certificates of having completed five years of medical study, *i.e.*, from the date of passing a recognised examination in Chemistry and Physics. Persons who have completed the whole or part of the course of study for a Medical degree in another approved Institution may be exempted by the Senate from a portion of the course. Special application for this should be made to the Registrar. In all cases two of these years must be passed in the University of Manchester, subsequent to the passing of Part I of the 1st M.B. Examination. Candidates must pass the Matriculation Examination (*see* pages 12-18), or an examination accepted in lieu thereof, which must include Latin, English, and Mathematics. They must also have attained the prescribed standard in that examination in Mechanics, or give evidence satisfactory to the Senate that they have attained a standard in that subject substantially equivalent to that of Matriculation.

#### UNIVERSITY OF OXFORD.

This University confers the Degrees of B.M. in Medicine, and B.Ch. in Surgery, the qualifying examination being the B.M. and B.Ch. It should be noted that only graduates in Arts of the University of Oxford are eligible for the Medical and Surgical Degrees. The ordinary course for the B.A. Degree for intending graduates in Medicine is to take Responsions, the Preliminary Science Examination (in Mechanics and Physics, Chemistry, Zoology and Botany), and the Final Honour School of Physiology. At the same time the student works for the First B.M. Examination in Anatomy and Physiology, which may be passed either before or after and Final Honour Examination. Pathology and Pharmacology may also be studied in Oxford, and at the same time, during an extra year devoted to those subjects, courses in elementary Medicine and Surgery can be attended at the Radcliffe Infirmary. The clinical course for the Second B.M. Examination is usually taken at one of the Medical Schools in London, and occupies three years.

Thus the whole course occupies at least five years even for a Senior Student from the time of passing the Preliminary Science Examinations, including the time spent in clinical work away from Oxford. The course should be commenced in October.

All examinations and courses in Oxford are open to women.

#### UNIVERSITY OF SHEFFIELD.

The University confers the Degrees of M.B., Ch.B.

Before admission to courses for these degrees candidates must furnish certificates of having passed the Joint Board

Matriculation examinations (*see* pages 12-18) or an exemption accepted by that Board as equivalent to the Matriculation. Before registration as a medical student the candidate must also pass a preliminary examination in Chemistry and Physics which may be taken at the University. Exemption from this preliminary examination is granted to candidates who have passed, in some other University, an examination recognised as its equivalent. The courses last five and a half years subsequent to this: three of such years at least must have been passed in the Faculty of Medicine of the University, at least one of these three being subsequent to the passing of the Second Examination.

It is inconvenient for students to begin courses for the 1st or 2nd Examination at any time but the beginning of the academic year, that is in October.

#### UNIVERSITY OF WALES.

Courses for the degree of *Baccalaureus in Medicine* and *Baccalaureus in Chirurgia* (M.B., B.Ch.) of the University of Wales extend over a period of six years. (*See* also page 169.) Particulars of the Courses may be obtained on application to the Registrar of the University of Wales, University Registry, Cathays Park, Cardiff, or to the Secretary of The Welsh National School of Medicine, The Parade, Cardiff.

#### UNIVERSITY OF ABERDEEN.

The course lasts five years.\* Two of the five years' medical study must be spent at the University of Aberdeen, and the remaining three at a recognised University. Students must attend for at least three years the medical and surgical practice of a recognised hospital. At present there are many more applicants for admission to the Faculty of Medicine than there are vacancies, and preference is meantime given to candidates from Great Britain.

Applications for exemption from courses attended at another recognised University must be submitted to be dealt with by the Faculty of Medicine.

#### UNIVERSITY OF EDINBURGH.

The course for the University Degrees, which is one of five years,\* may be taken altogether in the University or partly in the University and partly by attendance at the Courses of Extra Academical Teachers of the School of Medicine of the Royal Colleges which are recognised by the University Court.

Three out of the five years of medical study must be spent at the University. The remaining two may be spent at any University of the United Kingdom or at any Indian or foreign University recognised by the University Court.

\* The Preliminary Examination of the Scottish Universities Entrance Board (*see* pages 30-31) must be passed before the courses can be commenced.

At Edinburgh a Pre-Registration Examination in Physics and Chemistry must also be passed.

Indian students who propose to take the Degrees of M.B., Ch.B., must pass the four professional examinations of the University of Edinburgh, but certain courses taken in India may be recognised if the University Court is satisfied that their scope and standard correspond to those of the courses given in the subjects in the University.

#### UNIVERSITY OF GLASGOW.

A course of five years is required.\* Within certain limits, instruction given by certain medical schools and teachers may be accepted, but not less than one-half of the subjects other than clinical must be taken in this or some other recognised University, and at least two years of the course must be taken at the Glasgow University.

Certain of the courses can also be taken at the Anderson College of Medicine, Glasgow.

The examinations, except the first professional under certain very limited conditions, must all be taken in Glasgow.

Students intending to start the study of Medicine in Glasgow must make special application. The necessary forms for application may be obtained from the Clerk of Faculties, The University.

The number of students who can be admitted in any one year is limited and applications for admission must be received before the 15th of June in any year. At present, students from India are only accepted for the full course.

#### UNIVERSITY OF ST. ANDREWS.

The course lasts five years.\* Two of the five years' medical study must be spent at the University of St. Andrews and the remaining three at a recognized University. The complete medical curriculum can be taken, the first two years in University College, Dundee, which is one of the constituent Colleges of the University, and the remainder at the Conjoint Medical School, Dundee; or the first two years may be taken in the United College, St. Andrews, and the remainder at the conjoint Medical School, Dundee.

#### TRINITY COLLEGE, DUBLIN.

Before obtaining the Degrees of Bachelor in Medicine, Surgery and Midwifery (M.B., B.Ch., B.A.O.) candidates must have obtained the Arts degree (B.A.) of the University and have devoted at least five years to medical study. The Arts and Medical Courses may be taken separately or concurrently.

In order to join the Medical School and prepare for the Medical Degrees of the University, a student must pass :

(a) The Entrance Examination to Trinity College or some examination recognized as equivalent.

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\* The Preliminary Examination of the Scottish Universities Entrance Board (see pages 30-31) must be passed before the courses can be commenced.

(b) A Special Preliminary Examination in Arts or obtain marks showing sufficient merit at the Examination for Junior Exhibitions.

(c) The pre-registration examination in Elementary Physics and Chemistry.

The medical course is of five years duration. Courses of instruction taken at the Medical Schools of Universities the medical degrees of which are registrable in Great Britain and Ireland may be accepted as qualifying for admission to the examinations in the School of Physic, if equivalent to the courses given therein, but a student is not permitted to take any of the degrees in medicine unless he has attended at least three of the prescribed five years in the School of Physic, Trinity College, taken the courses of those three years and passed the Intermediate Medical (Anatomy and Physiology) and all subsequent Examinations.

## MEDICAL SCHOOLS.

### SUMMARY OF FEES FOR THE COMPLETE COURSE.

	<i>Period. Years.</i>	<i>Tuition, etc. Fees.*</i>	<i>Examination and Graduation fees (excluding Matriculation).</i> £ s. d.	
Birmingham	...	6	£219 2s. 6d.	
Bristol	...	6	£234 3s. 0d.	
Durham	...	5†	£233 12s. 6d.	
Leeds	...	5‡	£295 15s. 0d.	
Liverpool	...	6	£279 1s. 6d.	
London—				
Charing Cross Hospital.	6	£288 15s. 0d.	} 31 10 0 (For M.B., B.S., London).	
Guys	...	6		£287 10s. 6d. (£270 for L.R.C.P., M.R.C.S.).
Kings College Hospital.	6	£230 17s. 0d.		
London Hospital...	5†	£256.		
Middlesex Hospi- tal.	6	£271.		
London Sch. of Med. for Women.	6	£318 9s. 0d.		
St. Bartholomew's Hospital.	6	£278 5s. 0d. (paid in 5 instal- ments).		
St. George's Hos- pital.	6	£260 6s. 6d.		
St. Mary's Hos- pital.	6	£231 16s. 0d. (paid in 4 instalments).		
St. Thomas's Hos- pital.	6	£336 15s. 0d.		
University College Hospital.	6	£255 15s. 0d.		
Westminster Hos- pital.	6	£275 12s. 3d.		

\* Excluding books and instruments, but including Students' Union or Societies unless otherwise stated.

† Excluding Pre-Registration Course.

	<i>Period. Years.</i>	<i>Tuition, etc. Fees.*</i>	<i>Examination and Graduation fees (excluding Matriculation).</i> £ s. d.
Manchester ... ..	6	£257 5s. 0d.	42 0 0
Sheffield ... ..	5½	£253.	21 0 0
University of Wales (Welsh National School of Medi- cine).	6	£270 2s. 6d. (including B.Sc.)	25 16 0
Aberdeen ... ..	5	£221 (Approx.).†	35 13 0
Edinburgh ... ..	5	£230 (Approx.).†	35 13 0
Glasgow ... ..	5	£215 (Approx.).†	35 13 0
St. Andrews ... ..	5	£217 1s. 0d.†	35 13 0
Queens University, Belfast.	5†	£170 (Approx.).	31 10 0
Trinity College, Dublin.	5†	£228 8s. 0d. (with B.A) †	19 0 0
N.U.I., Dublin ... ..	5†	£162 19s. 0d.	} 25 0 0
Cork... ..	6	£193 10s. 0d.	
Galway ... ..	6	£154 10s. 0d.	

#### EXAMINATION FEES (OTHER THAN UNIVERSITY FEES).

For M.R.C.S. (Eng.) L.R.C.P. (Lond.), £46 4s. 0d. (excluding Preliminary Examination in General Education).

For L.M.S.S.A. (Lond.), £26 5s. 6d. (excluding Preliminary Examination in General Education).

For L.R.C.P. (Edin.), L.R.C.S. (Edin.), L.F.P.S. (Glasg.), £30 (excluding Preliminary Examination in General Education and Pre-Registration Examination).

For L.R.C.P. (Irel), L.R.C.S. (Irel), £42 (excluding Preliminary Examination in General Education and Pre-Registration Examination).

### III.—Qualifications obtainable in India and Registrable in the United Kingdom.

NOTE.—None of the following qualifications are registrable if conferred after February 24th, 1930.

#### UNIVERSITY OF ALLAHABAD :

M.B., B.S. in Medicine and Surgery.

If conferred on or after January 1st, 1919, the degree must have been registered in the United Provinces.

#### UNIVERSITY OF BOMBAY :

L.M.S.

M.B., B.S.

M.D.

M.S.

} in Medicine and Surgery.

If conferred on or after June 25th, 1912, the degree must have been registered in the Presidency.

In the case of a degree granted subsequent to May, 1923, a statement must be supplied by the Dean of the Faculty of

\* See footnote on preceding page.

† Excluding Student Union or Societies.

‡ Excluding Pre-Registration course.

Medicine, certifying that the holder has fulfilled the requirements of the General Medical Council.

#### UNIVERSITY OF CALCUTTA :

The degrees of L.M.S., M.B., M.D., M.S., M.O., are registrable if conferred prior to the 30th November, 1924, in which case, if conferred on or after May 27th, 1914, they must have been registered in the Presidency. They are also registrable if conferred subsequent to May 12th, 1928.

#### UNIVERSITY OF LUCKNOW :

M.B., B.S. in Medicine and Surgery.

If conferred on or after January 1st, 1919, the degree must have been registered in the United Provinces.

In the case of a degree granted subsequent to May, 1923, a statement must be supplied by the Dean of the Faculty of Medicine, certifying that the holder has fulfilled the requirements of the General Medical Council.

#### UNIVERSITY OF MADRAS :

L.M.S. (provided professional  
study has been begun before  
January 1st, 1892).

M.B., C.M.

M.B., B.S.

M.D.

} in Medicine and Surgery.

If conferred on or after June 1st, 1916, the degree must have been registered in the Presidency.

#### UNIVERSITY OF THE PUNJAB :

L.M.S.

M.B.

M.D.

M.S.

} in Medicine and Surgery.

If conferred on or after January 1st, 1918, the degree must have been registered in the Punjab.

In the case of a degree granted subsequent to May, 1923, a statement must be supplied by the Dean of the Faculty of Medicine, certifying that the holder has fulfilled the requirements of the General Medical Council.

NOTE.—The date on which a Degree is conferred is that on which it is actually granted, and not that on which the examination for the Degree was passed.

#### *Applications for Registration :*

Applications for registration which must be on the prescribed form can be addressed either through the University Bureau or Local Advisory Committee and the High Commissioner for India (Education Department), London, or direct to the Registrar of the General Medical Council, 44, Hallam Street, Portland Place, London, W.1. They should be accompanied by original diplomas and also by evidence of registration in the province in which the degree or qualification is granted. The fee for registration is £5 1s.

## POSTGRADUATE DEGREES AND DIPLOMAS.

Postgraduate degrees are conferred by all the Universities awarding first medical degrees, and for details of these reference should be made to the summaries contained in Section II under the heading of the University concerned. Apart from University qualifications, there are the Fellowship of the Royal College of Surgeons of England, the Membership of the Royal College of Physicians of London, the Fellowship of the Royal College of Surgeons, Edinburgh, Membership of the Royal College of Physicians, Edinburgh, and various special diplomas.

### F.R.C.S. (England).

(These Regulations apply to all Candidates.)

There are two examinations for the Fellowship : the Primary and the Final.

(A) The PRIMARY EXAMINATION can be taken by :—

(i) A Member of the College at any time after receiving the Diploma of Membership (*i.e.*, a student who has obtained the Diplomas of M.R.C.S., L.R.C.P.).

(ii) Other candidates after production of the following certificates :—

(a) Of having passed *either*

The examination in Anatomy and Physiology of the Examining Board in England for the Diplomas of L.R.C.P., M.R.C.S. ;

*or*

the examination in Anatomy and Physiology for the Degrees in Medicine and Surgery of a University recognised by the Council for the purpose. (Evidence of holding the Medical and Surgical Degrees of such University will be accepted as sufficient evidence of this.)

(b) of having dissected at a recognised Medical School or Schools for a period of not less than sixty weeks ; (Dissections during the regular vacations will be accepted up to a maximum of six weeks in any one year, provided that the Certificate shows that such dissections have been performed under the superintendence of an authorised Teacher in a recognised Medical School.)

(c) of having attended at a recognised Medical School or Schools, courses of instruction in Experimental Physiology, Chemical Physiology, and Histology.

[The subjects for the Primary Examination are Anatomy and Physiology, and it is held in the months of May and November. The fee is eight guineas.]

(B) The FINAL EXAMINATION :—

(i) A Member of the College who passed the Primary Examination before the 1st January, 1935, is admissible to the Examination at any time, on producing evidence of having been engaged for not less than six years in the study and practice of the Profession.

(ii) A Member of the College who passed the Primary Examination after the 1st January, 1935, is admissible on producing evidence of having been engaged for not less than six years in the study and practice of the Profession, and evidence that he has held for not less than six consecutive months the post of resident House Surgeon, or other responsible post, in charge of general surgical patients in the wards of a general hospital recognised by the Council for the purpose.

(iii) A Graduate in Medicine and Surgery of a University recognised by the Council, who passed the Primary Examination before the 1st January, 1935, is admissible to the Final Examination on producing evidence of having been engaged in the study and practice of the Profession for not less than four years subsequent to the date of obtaining his Degrees, one year of which shall have been spent in attendance on the surgical practice of a recognised Hospital.

(iv) A Graduate in Medicine and Surgery of a University recognised by the Council, who passed the Primary Examination after the 1st January, 1935, is admissible to the Final Examination on production of evidence of having been engaged in the study and practice of the Profession for not less than four years subsequent to the date of obtaining his Degrees, and of having held for not less than six consecutive months the post of resident House Surgeon, or other responsible post, in charge of general surgical patients in the wards of a general hospital recognised by the Council for the purpose.

(v) The subject of the Final Examination is Surgery, including Surgical Anatomy and Pathology. It is held in the months of May and November. The fee is fifteen guineas.

(vi) The fees payable before the Diploma can be granted, in addition to the fees payable for admission to the Examinations, are :—In the case of Members of the College—i.e. those holding the Diplomas of L.R.C.P., M.R.C.S.—£10 10s. 0d. In the case of all other candidates £31 10s. 0d. These fees are not payable until both Examinations have been passed.

(vii) The Examinations and the Medical and Surgical Degrees of the Indian Universities of Allahabad, Bombay,



Calcutta, Lucknow, Madras and Punjab are recognised by the Council for the purposes of the regulations, and the surgical appointments required by the regulations B (ii) and (iv) above may be held at teaching hospitals associated with these Universities.

*Fuller information can be obtained either through the University Bureau or Local Advisory Committee in India and the High Commissioner for India (Education Department), London, or direct from the Director of Examinations, Examination Hall, 8-11, Queen Square, London, W.C.1.*

### **Membership of the Royal College of Physicians.**

Any Candidate who is a Licentiate of the College, or who has obtained at any University a degree of Doctor or Bachelor of Medicine which is registrable by the General Medical Council of the United Kingdom, shall, if the Censors' Board think fit, be admitted to the Pass Examination. The nature and extent of this Examination shall, in the case of each Candidate, be determined by the Censors' Board.

Each candidate must furnish proof that he has attained the age of twenty-three years, and must produce a testimonial from a Fellow or Member of the College certifying from personal knowledge of him that he is a fit and proper person for admission as a member as regards moral character, and he must also satisfy the Censors' Board as to the sufficiency of his general education and culture. *Candidates are given the opportunity of showing their knowledge of Greek, Latin, French and German by the translation of short passages from these languages in the course of the Written Examination, but such translations are optional.*

Any candidate admitted to examination who has attained the age of thirty years, and who can produce testimonials as to moral character and conduct and his general and professional attainments, shall be permitted to submit work by himself in any branch of medical science or in general literature, that has been published, and if the Censors' Board decide that such work is of sufficient merit to excuse the candidate the whole or part of the usual examination the Censors' Board may modify the examination as they think fit.

The examination is held in January, April, July and October, and consists of written and *viva voce* examination on Medical Anatomy, on Pathology, and on the Principles of Medicine, the Practice of Medicine, including the Principles of Public Health, and Psychological Medicine; and the candidate's practical knowledge will be tested either at the College or in the Medical Wards of a Hospital. The fee for examination is ten guineas. The fee for admission as a member is 40 guineas, except when the candidate for membership is a Licentiate of the College, in which case the fee already paid for the licence shall be deducted from the forty guineas. The fee paid for the

examination will also be reckoned as part of the fee for admission as a member, in the event of a candidate satisfying the Censors' Board of his competency.

*Fuller information can be obtained either through the University Bureau or Local Advisory Committee in India and the High Commissioner for India (Education Department), London, or direct from the Registrar of the Royal College of Physicians of London, Pall Mall East, S.W.1.*

### **Fellowship of the Royal College of Surgeons, Edinburgh.**

Every candidate for the Fellowship by examination must produce satisfactory evidence that he is twenty-five years of age, and that he has for at least two years subsequent to the date of having obtained a qualification in Surgery recognised by the College been engaged in the study or practice of his profession. The registrable Surgical Qualifications at present recognised by the College are those of the Royal College of Surgeons of England, the Royal College of Surgeons of Ireland, the Royal Faculty of Physicians and Surgeons of Glasgow, the Surgical Degrees of the Universities of Great Britain and Ireland, and the Licence in Medicine, Surgery, and Midwifery of the Society of Apothecaries of London and the Apothecaries' Hall, Dublin, registered under the Medical Act, 1886, and such qualification as may be from time to time approved of by the Council of the College.\*

Every candidate for the Fellowship by examination should lodge with the Clerk to the College (Mr. David Thomson, 18, Nicolson Street, Edinburgh) a Petition for examination along with an examination fee of £20 at least 3 weeks before the examination. After having passed the examination for the Fellowship, the candidate shall lodge with the Clerk to the College a Petition asking that his name be placed before the College for election as a Fellow and shall pay the sum of £30 to the College funds. In the case of those who hold the Diploma of Licentiate of the College £10 thereof shall be remitted in consideration of the fees they have already paid. The Petition shall be signed by two Fellows as proposer and seconder who must be sufficiently acquainted with the candidate to vouch that he is in every way a suitable candidate for the Fellowship. A candidate who is not personally acquainted with two Fellows as required, may make application, through the Secretary, to the President's Council for permission to have his name submitted to the College for election. In support of this application he shall submit testimonials from not fewer than four members of the medical profession of repute certifying that he is in every way a suitable candidate for the Fellowship.

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\* The Surgical Degrees of the Universities of Calcutta, Bombay, Madras and the Punjab are also recognised provided that these Degrees were not conferred after February 24th, 1930, and in the case of Calcutta, between November 30th, 1924 and May 12th, 1928.

The examination will be held in September, January, March and July.

The subjects are :—

(a) The Principles and Practice of Surgery, including Surgical Anatomy.

(b) Clinical Surgery.

(c) One Optional Subject from the following : (1) Surgical Pathology and Operative Surgery ; (2) Ophthalmology ; (3) Laryngology, Otology, and Rhinology ; (4) Gynaecology ; (5) Obstetric Surgery ; (6) Advanced Anatomy ; (7) Dental Surgery and Pathology.

It will be noted that there is no requirement in regard to curriculum, but candidates appearing for the Fellowship Examinations now usually spend six months taking private tuition as well as attending the different clinics at the Hospital in Edinburgh.

A candidate who is unsuccessful cannot be re-admitted to examination before the next quarterly period of the examinations for the Fellowship, and must have the consent of the College authorities. No Candidate who has failed on *three* occasions shall be again admitted to examination, except by express permission of the President's Council.

### **M.R.C.P., Edinburgh.**

Any Licentiate of a British or Irish College of Physicians, or alternatively any Graduate in Medicine of a University, approved by the Council, with whose knowledge of Medical and General Science the College may be satisfied, may be elected a Member of the College, provided he shall have attained the age of twenty-four years.

Every Candidate for the Membership shall be examined—

(1) On the Principles and Practice of Medicine, including Therapeutics.

(2) Also on one or more departments of Medicine specially professed, and approved by the Council, in which a high standard of proficiency will be expected.

The necessary form of Petition can be obtained either through the High Commissioner for India (Education Department), London, or direct from the Secretary to the Royal College of Physicians, Edinburgh, and should be returned in due course together with a statement of the names of the proposer and seconder or accompanied by testimonials of recent date from well known members of the profession, certifying as to professional and social standing. Candidates from overseas, whether from His Majesty's dominions or from foreign countries, should furnish testimonials from persons of repute

in their own medical schools in addition to such evidence of character as they may be able to obtain from teachers in this country. The Council may then authorise his examination by the Board of Examiners. Examinations take place quarterly in October, January, April and July and applications must be received by the Secretary not less than one month previous to the date of the examination at which the candidate proposes to appear. The fee payable is £36 15s.

### M.R.C.P., Ireland.

Every Candidate for the Membership of the College must be a Registered Medical Practitioner.\* A Candidate may enter for Part I of the Examination at any time after he has obtained a registrable qualification in Medicine, but before he is permitted to enter for Part II of the Examination he is required in addition to produce evidence satisfactory to the President and Fellows:—

(1) That he has been a Licentiate in Medicine of the College, or of the Royal College of Physicians of London, or of the Royal College of Physicians of Edinburgh, for at least one year, computed from the day on which he shall have subscribed his name on admission as a Licentiate: or

That he has been for at least one year a Doctor or Bachelor of Medicine of a University of Great Britain or Ireland, or of India, or of any British Colony or Dependency recognised by the General Medical Council for the purposes of registration: or

That he has held for at least one year a Foreign Qualification entitling him to practise Medicine and Surgery in the country where such qualification has been conferred.

(2) That he has pursued a course of study, both in general and professional education, approved by the President and Fellows of the College, prior to having obtained his medical qualification.

The examination for Membership shall consist of two parts:—

Part I.—An examination in General Medicine and Pathology consists of:—

- (1) A written examination in Medicine.
- (2) A written examination in Pathology.
- (3) A clinical examination in Medicine.
- (4) An oral examination in Pathology.

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\* The term Registered Medical Practitioner shall be interpreted to mean: a practitioner of the Irish Free State, or of the United Kingdom, or a Colonial or a Foreign Practitioner, who has been registered as such by the Registration Council of the Irish Free State, or by the General Council of Medical Education and Registration of the United Kingdom, under the Medical Acts of the Irish Free State and of the United Kingdom respectively.

Part II.—A further examination in one of the following special subjects:—(1) Medicine, (2) Obstetrics and Gynaecology. (3) Pathology and Bacteriology, (4) Tropical Medicine. (5) Mental and Nervous Diseases, (6) Public Health, (7) Physiology, Therapeutics, and Pharmacology, (8) Anatomy and Embryology, (9) Physiology and Biochemistry.

This shall consist of:—

- (1) A written examination.
- (2) An oral examination.
- (3) A clinical or a practical examination, or both.

A Candidate who has fulfilled the requirements specified above may, if he wishes, enter for Part I and Part II of the examination at the same time, but in such case rejection in Part I of the examination shall involve rejection in both parts.

*Fees:*

	<i>Licentiate of the R.C.P. (Ireland).</i>			<i>Non-Licentiate of of the R.C.P. (Ireland).</i>		
	£	s.	d.	£	s.	d.
Membership Examination	21	0	0	36	15	0
Part I (only) ... ..	10	10	0	15	15	0
Part II (only) ... ..	10	10	0	21	0	0

*Fuller information, Blank Schedules and Forms of Application, can be obtained either direct from the Registrar, Royal College of Physicians of Ireland, Kildare Street, Dublin, Ireland, or through the University Bureau or Local Advisory Committee in India, and the High Commissioner for India (Education Department), London.*

### **Fellowship of the Royal College of Surgeons, Ireland.**

The Examination for the Fellowship is divided into two parts, viz. :—The Primary and the Final.

#### **PRIMARY EXAMINATION.**

The subjects of the Primary Examination are—Anatomy, including Dissections, Physiology, and Histology. The Examination is partly written, partly *Viva Voce*, and partly Practical. Candidates must pass in all the subjects at one Examination.

Prior to admission to the Primary Examination a Candidate must produce:—

- (1) Evidence of having completed the Examinations in Anatomy, Physiology, and Histology of a University or licensing body whose degrees or licences entitle the holder to have his or her name placed on the Medical Register of the United Kingdom. Such examination, or examinations,

must include the entire of these subjects, so far as they are required for the registrable qualification of that University or licensing body.

A Candidate whose name is entered on the Colonial or Foreign Medical Register of the year in which he presents himself for examination, and who satisfies the Council that he has passed through a course of study and examination equivalent to those required by the Regulations of the Con-joint Board in Ireland of the Royal College of Physicians and the Royal College of Surgeons, preceded by the passing of an Examination in Arts recognised by the General Medical Council, may also, at the discretion of the Council of the College, be admitted to the Primary Examination for the Fellowship.

(2) A declaration that he has not, within three months, been rejected by any University or licensing body in the subjects of the Primary Fellowship Examination.

#### FINAL EXAMINATION.

The subjects of the Final Examination are—Surgery, including Surgical Anatomy, and Pathology. The Examination is partly written, and partly *Viva Voce*, and includes the examination of patients, and the performance of operations on the dead body. Candidates must pass in all the subjects at one Examination.

Prior to admission to the Final Examination a Candidate must have passed the Primary Examination, must be a Licentiate or Graduate in Surgery of a University or licensing body recognised by the General Medical Council, and must produce:—

(1) Certificate of Registration.

(2) A certificate of general good conduct, signed by two or more Fellows of the College.

(3) Evidence that he is not less than twenty-five years of age.

(4) A declaration that he has not, within three months, been rejected by any University or licensing body in the subjects of the Final Examination for the Fellowship.

*Fees:—*

Primary Examination ... ..	5 guineas.
Final Examination ... ..	5 guineas.

(Of these Examination Fees ten guineas will be reckoned as part of the Fee payable upon admission to the Fellowship.)

The Fee to be paid upon admission to the Fellowship is forty guineas, except when the Candidate is a Licentiate of the College, in which case the Fee is twenty-five guineas.

Fuller information can be obtained either direct from the Registrar, Royal College of Surgeons of Ireland, Dublin, or through the Universities of London, Edinburgh, and Glasgow, or the Local Advisory Committee in India and the ... for India (Education Department), London.

## Diploma in Anaesthetics (D.A., R.C.P. & S. Eng.).

The examination is in one part and will be held in the months of May and November in each year. The examination (which will be written and oral) shall comprise :—

(a) Human Anatomy and Physiology, considered in relation to Anaesthesia.

(b) The History, Theory, and Practice of Anaesthesia, including—Inhalation Anaesthesia; Intravenous, Rectal and other methods of inducing Anaesthesia; Local, Regional, and Spinal Anaesthesia in all varieties; Anaesthesia in its relationship to disease.

(c) Pre-operative investigation, preparation and medication; the recognition of post-operative complications and their treatment in so far as they are related to Anaesthesia

(d) The Pharmacology and Elementary Chemistry of drugs used for, or in association with, Anaesthesia.

Candidates are required to produce the following certificates before they are admissible to the Examination, viz. :—

(a) Of being in possession of a qualification in Medicine, Surgery and Midwifery which is registrable in the British Medical Register; or, of being Graduates in Medicine and Surgery (M.D., or M.B.B.S.) of an Indian, Colonial, or Foreign University recognised by the Examining Board in England, but whose degrees are not registrable in this country.

(b) Of having, subsequently to the attainment of such qualification :—

Held resident appointments in recognised general hospitals for not less than twelve months, of which at least six months shall have been as Resident Anaesthetist: or, personally administered anaesthetics in a general hospital or general hospitals recognised for the purpose on not less than one thousand recorded occasions, at least one half of which shall have been for major surgical procedures. (Candidates are required to submit with this certificate a detailed list of these major surgical procedures, indicating the type of Anaesthesia employed in each case. The certificate and the detailed list must be signed by the Senior Anaesthetist in the case of a general hospital associated with a recognised medical school, or by the Senior Surgeon of any other recognised general hospital.)

The fee for admission or re-admission to the examination is £6 6s.

The above conditions of study may be modified at the discretion of the Committee of Management in the case of candidates (a) who have carried out original investigations in

any branch of the science or practice of Anaesthesia; or (b) whose studies and practice have extended over a long period without fulfilling the exact conditions; but exemption will not be granted from any part of the Examination.\*

### Diplomas in Bacteriology.

#### UNIVERSITY OF LONDON.

The course for this Diploma is open to (a) Graduates in Medicine, Science and Pharmacy of this or another approved University whose previous training has, in the opinion of the University, fitted them to profit by the course, or to (b) Registered Medical practitioners and other students who, though not graduates, have obtained a qualification and undergone a previous training which, in the opinion of the University, has fitted them to profit by the Course.

Students are required to attend a course of study approved by the University, and extending over not less than *one academic year* at one or more of the Colleges or Schools of the University. It must, unless special exemption is obtained, be continuously pursued.

The subjects of the Course are as follows :—

A. General Bacteriology, including the Morphology and Physiology of Bacteria; Bacterial Classification; the description and identification of the more important bacterial groups; the antigen-antibody reactions in relation to general Bacteriology; quantitative methods in bacteriological investigation; and elementary bacteriological chemistry.

B. Special courses of instruction in Bacteriology as applied to one of the following subjects :

- (1) Clinical Medicine.
- (2) Hygiene.
- (3) Industry.

The Examination for the Academic Diploma in Bacteriology will take place once in each year, in July.

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\* Until May 1st, 1938, it shall be open to the Royal Colleges, on the recommendation of the Committee of Management of the Examining Board, to grant the Diploma, without examination, to an Anaesthetist to a general Hospital associated with a recognised medical school in the British Empire who has held this appointment for not less than ten years. The fee for such Diploma is six guineas.

The recognised hospitals are :—

- (a) The general hospitals associated with any medical school recognised by the Examining Board in England.
- (b) The general hospitals which are recognised by the Council of the Royal College of Surgeons of England in connection with the regulations for admission to the Final Examination for the F.R.C.S. England.



The Examination will consist of :

Two papers, a practical and an oral examination on the subject under A above.

Two papers, together with a practical and an oral examination on the subject under B above, which has been selected and more specially studied by the candidate.

Fee for the examination : £5 5s.

The approved course of study can be taken at the London School of Hygiene and Tropical Medicine, Keppel Street, Gower Street, W.C.1 (*see* page 110), and commences in October. The fee for the course is £44 2s.

#### UNIVERSITY OF MANCHESTER.

Before commencing the course of study, candidates must produce evidence that they have :—

(a) Graduated in Science or in Medicine in this, or in some other approved University, or

(b) Obtained a medical qualification, registrable in this country, which shall be approved by the Senate of this University, or

(c) Obtained a qualification approved by the Senate other than those stated in (a) or (b).

All candidates must present evidence of previous training approved by the Senate as satisfactory for admission to the course.

Before entering for examination, candidates must present evidence of satisfactory attendance in the course of study prescribed for the Diploma, in the University.

The course of study includes instruction in the following :  
(i) General technical methods ; (ii) General bacteriology ; (iii) Bacteriological chemistry ; (iv) Systematic bacteriology ; (v) Filterable viruses ; (vi) Comparative pathology ; (vii) Bacteriological examination of water, milk, and foods ; (viii) Immunology.

The examination shall consist of (a) one written paper on the subjects i, ii and iii above ; (b) two written papers and one practical examination on the subjects iv, v, vi and vii above ; (c) one written paper and one practical examination on the subject viii above ; (d) an oral examination ; (e) candidates shall, during the second half of the course, select some subject to be approved by the Professor, on which they must submit an essay at or before the time of presenting themselves for examination.

Fee for the course ... ..	£35 14 0
Fee for Apparatus (Laboratory Course) . .	£6 6 0
Examination fee . . . . .	£5 5 0

#### Diploma in Child Health (D.C.H., R.C.P. & S., Eng.).

The examination will be in one part and will be held in the months of March and October in each year.

The examination which will be both clinical and oral shall comprise:—

- (a) The anatomy, physiology and pathology of childhood.
- (b) The development of the child, physical and mental, including speech, with their disorders; physical education in childhood.
- (c) The hygiene and dietetics of infancy and childhood.
- (d) Affections of the newborn.
- (e) Disease in infancy and childhood, medical and surgical.
- (f) The therapeutics of infancy and childhood, including remedial treatment, physical and mental.
- (g) Legislation and public administration in regard to the care of children, including the methods of Infant Welfare Centres and of the School Medical Service.

Candidates are required to produce the following certificates before they are admissible to the Examination, viz.:—

- (a) Of being in possession of a qualification in Medicine, Surgery and Midwifery which is registrable in the British Medical Register: or, of being Graduates in Medicine and Surgery (M.D., or M.B.B.S.) of an Indian, Colonial, or Foreign University recognised by the Examining Board in England but whose degrees are not registrable in this country.
- (b) Of having, subsequently to the attainment of such qualification: been Resident Medical Officer in a recognised Children's Hospital or in the Children's Department of a recognised General Hospital for six months; or, acted as Clinical Assistant in a recognised Children's Hospital or in the Children's Department of a recognised General Hospital on two days a week, of not less than three hours each, for twelve months.

The fee for admission to the examination is £6 6s.

The above conditions of study may be modified at the discretion of the Committee of Management in the case of candidates (a) who have carried out original investigations in any branch of the subject; or (b) whose studies and practice have extended over a long period without fulfilling the exact conditions; but exemption will not be granted from any part of the Examination.

The recognised hospitals are:—

- (A) The general hospitals associated with any recognised medical school in the British Empire.

### **Diplomas in Gynaecology and Obstetrics.**

EXAMINING BOARD IN ENGLAND.

The Examination for this Diploma is being discontinued.

THE BRITISH COLLEGE OF OBSTETRICIANS AND GYNAECOLOGISTS.  
*Diploma.*

The College awards a Diploma styled the Diploma of the British College of Obstetricians and Gynaecologists (D.C.O.G.).

A candidate must have been entered on the British Register of Medical Practitioners or hold a degree or diploma recognised by the General Medical Council as entitling the holder to admission to the British Medical Register. (An Indian Medical degree not registrable by the General Medical Council is not accepted.) Candidates must submit evidence of having held appointments as follows :—

(A).—*General Medicine and Surgery.*

Six months' resident appointment, after qualification, in the medical or surgical department of a recognized general hospital.

(B).—*Obstetrics.*

Six months' resident appointment, after qualification, in the maternity department of a recognized general hospital, or in a recognized maternity hospital.

(C).—*Gynaecology.*

Attendance on an approved post-graduate course satisfactory to the Examination Committee.

(B) and (C) may be combined in one appointment, but the conditions must satisfy the Examination Committee.

(D).—*Antenatal, Postnatal, and Infant Welfare Clinics.*

Six months' regular attendance at these clinics in a recognized general hospital or maternity hospital, or clinics under the local authorities where teaching is conducted and at least two clinics a week are held.

These duties may be concurrent with (B) and (C).

For the present, and until the Council shall decide otherwise, candidates whose names have been on the Medical Register and who have been engaged in the practice of Medicine for at least 10 years, may be admitted to the examination on the production of evidence satisfactory to the Examination Committee that they have served five years on the staff of a maternity hospital. In such cases, particulars of the amount of work done by the hospital, the proportion for which the applicant is personally responsible, and any other information considered necessary for a decision to be reached on the value of the experience obtained, must be supplied.

The Examination will consist of :—

(a) A written paper.

(b) An oral and practical examination, including obstetrical operations on the model and obstetric pathology.

(c) A clinical examination.

A fee of ten guineas is payable for the first admission to the examination, and of seven guineas for re-examination.

*Membership.*

Every applicant for election for Membership must possess a Medical qualification as for the Diploma (*see above*) and will

be required to submit evidence of having held a Resident appointment as House Physician or House Surgeon at a recognized Hospital for at least six months, and, in addition, Resident appointments in both Obstetrics and Gynaecology, and to have had responsible experience in Antenatal and Postnatal Clinics. The Resident appointments in Obstetrics in Gynaecology must cover at least a year.

Such candidates who qualify under these conditions will be required :—

(1) To submit complete records of twenty-five selected obstetrical cases which he has himself attended, and ten selected gynaecological operations which he has himself performed. Commentaries not exceeding 2,000 words, as well as reviews of the literature, dealing with at least one obstetrical and one gynaecological case, or better, with a series of cases, must also be submitted.

(2) To pass an oral and clinical examination of an hour's duration which will include obstetrical and gynaecological pathology and which may also include the consideration of the case records and commentaries submitted by the candidate.

On election a Member must pay a registration fee of fifteen guineas and an annual subscription of three guineas (two guineas for Members practising outside the British Isles). The examination fee is five guineas but it is deducted from the registration fee on admission to Membership.

Applications for admission to the Diploma Examination or for Membership should be addressed either through the Office of the High Commissioner for India, Education Department, India House, Aldwych, London, W.C.2, or direct to the Secretary of the College, 58, Queen Anne Street, London, W.1.

#### TRINITY COLLEGE, UNIVERSITY OF DUBLIN.

Candidates for the University Diploma in Gynaecology and Obstetrics must be Registered Medical Practitioners\* who, after the date of registration, have taken out the prescribed course of study at Trinity College, and at the Rotunda Hospital, or other Hospital recognised for the purpose by the Board and Council. Six months' residence in the Hospital is required; also six months' study in Trinity College, three months of which may be concurrent with the residence in the Hospital. The six months' study in Trinity College should be commenced at the beginning of the Medical Year, in the first week in October, but in special circumstances candidates may begin in the first week in January or in the second week in April. The Hospital study may be commenced at any time.

\* "Registered Medical Practitioner" means that the candidates must be registered either in the Medical Register of the Irish Free State or in the Medical Register published under the direction of the General Council of Medical Education and Registration of the United Kingdom.

Instruction is given during the course in:—Practice of Midwifery, Practice of Gynaecology, Ante-natal conditions, Diseases of Infants. Anatomy of the Female Pelvis, Elementary Embryology, Pathology of the Female Organs, and Ante-natal Pathology.

The examination for the Diploma is in the same subjects.

The fees payable are as follow :—

	£	s.	d.
Rotunda Hospital instruction for six months ... ..	21	0	0
Registration fee, Trinity College, six months ... ..	18	1	0
Special Anatomy and Embryology			
Pathology ... ..	10	0	0
Examination Fee ... ..	10	0	0
Fee for Diploma ... ..	10	0	0
	59	1	0

*The Diploma fee is payable to the Senior Proctor.*

MASTER OF MIDWIFERY. SOCIETY OF APOTHECARIES OF LONDON.

1. Candidates must be registered by the General Medical Council and have possessed for at least three years a qualification to practise medicine, surgery and midwifery in the United Kingdom.

2. After qualification :—

(A) Candidates must have held, for not less than six months, a resident appointment in an institution recognised by the Society for the purpose.

(a) The Obstetric Wards of Hospitals with teaching schools.

(b) Institutions in which the whole time of the prospective candidate has been engaged in obstetric or obstetric and gynaecological work.

(c) Such other institutions, as in the opinion of the examiners, provide sufficient opportunities for gaining practical experience in obstetrics.

(B) They must have attended an ante-natal clinic recognised by the Society for not less than three months.

(C) They must have attended an infant welfare centre recognised by the Society for not less than three months.

3. The examination is conducted by written papers and by clinical and oral tests.

(a) Papers :—There are three written papers, the first concerns the science and practice of Obstetrics, the second Public Health and Administrative Practice in relation to Maternity and Child Welfare, and the third the subjects of Infant Welfare and the Hygiene and Disorders of Infancy.

(b) Oral :—There are oral examinations of not less than 15 minutes' duration in Obstetrics and Paediatrics and these examinations may include questions in pathology and the recognition of macroscopic and microscopic preparations.

(c) Clinical :—The clinical examination is held at a hospital both in Obstetrics and in the Management and Care in Infancy. Only those Candidates who satisfy the Examiners in the written are admitted to the Oral and Clinical Examination.

4. The entrance fee for the examination is 10 guineas, and a further fee of 10 guineas is payable before admission to the Mastery. The re-examination fee is 5 guineas.

### **L.M., Rotunda Hospital, Dublin.**

Courses for this qualification are given at the Rotunda Hospital, Dublin. They are only open to students with an approved medical qualification and no exemptions are granted from any portion of the course. The L.M. Examination is held on the first Monday of each month, and students are eligible to enter after the completion of the period of six months. The Master of the Hospital points out that the course is one in Advanced Practical Obstetrics, and the student must be of a high standard. Special classes in operative obstetrics and practical gynaecology are held by the Assistants to the Master—Fee £2 2s. 0d. A special course is also held by the pathologist. A Bio-chemist carries out the Zondeh-Achein test for pregnancy and is prepared to help any post graduates who are desirous of doing research work on the material in the Hospital. There is a large prenatal clinic and paediatric department. A skilled paediatrician attends the latter. An X-Ray Department is attached to the Hospital.

As the vacancies are limited, students desiring admission are advised to submit their applications at the earliest possible moment to the Master, either direct or through the Local University Information Bureau or Advisory Committee.

#### **Fees :—**

				£	s.	d.
One month ...	...	...	..	6	6	0
Two months ...	...	...	...	10	10	0
Three months ...	...	...	...	12	12	0
Six months ...	...	...	...	21	0	0

Accommodation is obtainable in the hospital for a certain number of students. The charge for board and lodging is £2 2s. per week.

### **L.M., Coombe Hospital, Dublin.**

This diploma is open to holders of a recognised medical degree after (a) a period of 2 months, during which time they have resided in the hospital, and taken part in the actual attendance on not less than thirty cases of labour, and (b) have diligently

attended the general work and the clinics of the hospital, and (c) have presented themselves at the end of the period for examination by the Master and his Assistants. The examination will cover Midwifery and also include a knowledge of diseases of infants.

The fees payable are £19 8s. 6d. plus the cost of board, which is approximately 30s. per week.

### Diploma in Laryngology and Otology.

#### EXAMINING BOARD IN ENGLAND.

The examination is in two parts and both parts will be held in the months of June and December.

The Examination comprises :—

Part I. The anatomy, embryology, and physiology of the ear, nose, pharynx, larynx, trachea and bronchi, and œsophagus. (Candidates will be expected to be acquainted with the vascular, lymphatic, and nervous connections of these parts, and with the central nervous system in so far as it relates to the special regions concerned, and will also be expected to have an elementary knowledge of Acoustics.)

Part II (a) The recognition and use of special instruments and appliances.

(b) The Medicine, Surgery, and Pathology of the ear, nose, pharynx, larynx, trachea and bronchi, and œsophagus.

Candidates may enter for Part I of the examination at any time after a registrable qualification in Medicine, Surgery and Midwifery has been obtained, and for Part (2) (a) after passing Part (1), (b) on the completion of one year of special study of the diseases of the ear, nose, pharynx and larynx after a registrable qualification has been obtained, and (c) on the production of certificates (1) of having attended the Laryngological and Aural Clinical practice of a recognised hospital or of the Laryngological and Otological Departments of a recognised General Hospital for 12 months; (the candidate must hold the appointment of House Surgeon or House Physician or of Clinical Assistant with attendance for at least three hours a day on two days of the week); (2) of having attended operations to the satisfaction of the surgeons in charge, and (3) of having received special instruction in pathology and bacteriology with special reference to Laryngological and Otological Medicine and Surgery.

Graduates in Medicine or Surgery of Indian, Colonial and Foreign Universities recognised by the Examining Board in England, but whose degrees are not registrable in this country, may enter for the Examination for the Diploma, on fulfilling the same conditions with regard to study. But it should be noted

that Licentiates of the College of Physicians and Surgeons in India and Licentiates of the State Boards in India are not included in this category and are not admissible for this Diploma.

The fee for each part of the Examination is six guineas.

Although exemption will not be granted from any part of the Examination, the conditions of study may be modified at the discretion of the Committee of Management in the case of a candidate (a) who has carried out original investigations or has written a thesis on the subject in Laryngology or Otology and (b) whose studies have extended over a prolonged period of time without fulfilling the exact conditions.

### Diplomas in Ophthalmology.

#### EXAMINING BOARD IN ENGLAND.

The D.O.M.S. Examination is in two parts and both parts are held in the months of February and July.

Candidates may enter for Part I of the examination at any time after a registrable qualification in Medicine, Surgery, and Midwifery has been obtained; and may enter for Part II on the completion of one year of special study of Ophthalmology after a registrable qualification in Medicine, Surgery, and Midwifery has been obtained, provided that Part I has been previously passed and on production of the following certificates:—

(a) Of having specially studied Ophthalmic Medicine and Surgery and General Medicine in its relation to Ophthalmology for a period of twelve months;

(b) Of having been engaged in the investigation and correction of errors of refraction;

(c) Of having attended the Clinical practice of a recognised Ophthalmic Hospital or of the Ophthalmic Department of a recognised General Hospital for twelve months. [The candidate must hold the appointment of House Surgeon or House Physician or of Clinical Assistant with attendance for at least three hours a day on two days of the week].

(d) Of having attended a practical course of Operative Ophthalmic Surgery;

(e) Of having attended a course of Pathology and Bacteriology with a special reference to Ophthalmic Medicine and Surgery.

Graduates in Medicine or Surgery of Indian Universities recognised by the Examining Board in England, but whose degrees are not registrable in this country, may enter for the examination for the Diploma in Ophthalmic Medicine and Surgery on fulfilling the same conditions in regard to study. But it should be noted that Licentiates of the College of Physicians and Surgeons in India and Licentiates of State Boards in India are not included in this category and are not admissible for this Diploma.



The examination shall comprise :—

PART I.—(a) Anatomy and Embryology of the Visual apparatus; (b) Physiology of vision; (c) Elementary optics.

PART II.—(a) Optical defects of the eye; (b) Ophthalmic Medicine and Surgery; (c) Pathology with special reference to Medical and Surgical Ophthalmology.

The fee for admission to each part of the examination is six guineas.

#### OXFORD UNIVERSITY.

The examination for the Diploma in Ophthalmology is held annually and begins on the third Monday in June. An Indian candidate must have his or her name on the Medical Register of the United Kingdom. A candidate must produce evidence of attendance for twelve months upon a course of Clinical Ophthalmology in connection with Hospitals or Institutions recognised for the purpose by the Board of the Faculty of Medicine. (NOTE.—Three months of the period devoted to Ophthalmic study may run concurrently with the courses at Oxford.) If the Institution is outside the United Kingdom the applicant must send the certificates of his attendance, before the 1st January preceding the Examination, to the Dean of the Medical School, University Museum, Oxford (either direct or through the University Bureau or Local Advisory Committee and the High Commissioner for India (Education Department), London, for the approval of the Board of Faculty of Medicine.

Certificates must also be produced showing that the candidate has satisfactorily attended certain Ophthalmic courses in the University of Oxford, extending over a period of at least two months.

The subjects of the Examination are :—

- (1) The dioptrics of the normal and abnormal eye.
- (2) Abnormalities and diseases of the eye and its appendages; their aetiology, pathology, diagnosis, and treatment.
- (3) The relation of Ophthalmology to general medicine.
- (4) Clinical cases illustrating (1), (2), and (3).
- (5) Ophthalmic Surgery.

The fee payable is £15, unless the candidate is a graduate of the University, in which case it is £10. Any Candidate who has paid such fee, and who offers himself for examination again on a subsequent occasion pays a fee of £5 only.

#### ROYAL LONDON OPHTHALMIC HOSPITAL.

All necessary facilities for systematic instruction and clinical practice for both parts of the Diploma in Ophthalmic Medicine and Surgery of the Conjoint Board of the Royal Colleges of

Physicians and Surgeons can be obtained at this Hospital (Moorfields Eye Hospital), which also grants a Certificate in Ophthalmology. Two courses of instruction, each extending over a period of five months, are given annually, beginning in October and March.

The Composition fee for the complete course of instruction is £36 15s. 0d. This will admit the student once to all the lectures and classes, with the exception of the course of Slit Lamp Microscopy (fee £5 5s.) and Physico Therapy (fee £1 1s.). The course on Slit Lamp Microscopy is given twice yearly.

The fee for a perpetual ticket for the clinical practice of the hospital is £5 5s.

*Fuller information can be obtained either through the University Bureau or Local Advisory Committee in India and the High Commissioner for India (Education Department), London, or direct from the Dean of the School, Royal London Ophthalmic Hospital, City Road, E.C.1.*

### Diplomas in Pathology.

UNIVERSITY OF LONDON.

The Diploma Course for the Academic Diploma in Clinical Pathology is open to :—

(a) Graduates in Medicine of this or another approved University whose previous training has, in the opinion of the University, qualified them for registration as students for the Diploma ; or

(b) Registered medical practitioners whose training has, in the opinion of the University, qualified them for registration as students for the Diploma.

Students are required to pursue an approved course of instruction and training, lasting at least one calendar year, as a whole-time worker under the supervision of the head of the Pathological Department of one of the Colleges or Schools of the University.

Students must receive instruction in—

- (1) Morbid Anatomy and Histology, for at least twelve months ;
- (2) Bacteriology and Serology, for at least twelve months ;
- (3) Biochemistry for at least twelve months.

These periods may run concurrently provided that suitable facilities are available, and the course of instruction must, unless special exemption is obtained, be continuously pursued.

The Examination for the Academic Diploma will be held once in each year in the week beginning on the second Monday in December, and will consist of—

- (1) a practical and (2) an oral examination. These examinations shall include

(a) the examination of pathological material followed by written or verbal reports ;

(b) questions on the theory and principles involved in the methods of examination and in the specific tests of pathological material ;

(c) the interpretation of the results of laboratory examinations as applied to the diagnosis of disease.

The fee for each entry to the whole examination is £5 5s.

#### UNIVERSITY OF MANCHESTER.

Before commencing the course of study for the Diploma in Pathology candidates must produce evidence that they have :

(a) Graduated in Medicine in this or in some other approved University, or

(b) Obtained a medical qualification registrable in this country, which shall be approved by the Senate of this University, or

(c) Obtained a qualification approved by the Senate other than those stated in (a) or (b). Such candidates must present evidence of previous training approved by the Senate as satisfactory for admission to the course.

Before entering for the examination, candidates must present evidence of satisfactory attendance during one academic year on the course of study prescribed for the Diploma in the University.

The course of study includes courses of instruction in :—

Morbid Anatomy.

General Pathology, with practical work.

Special Pathology, with practical work.

Bacteriology.

Chemical Pathology.

Experimental Pathology.

The examination shall consist of (a) Three written papers on General Pathology, Special Pathology, and Bacteriology, together with oral and practical examinations. (b) A practical examination in Chemical Pathology. (c) Candidates shall during the second half of their course of study, select some subject, to be approved by the Professor, on which they must submit an essay at the time when they present themselves for examination.

	£	s.	d.
Fee for the course ... ..	35	14	0
Fee for apparatus . . . . .	6	6	0
Fee for examination (or re-examination) ...	5	5	0

#### Diplomas in Psychological Medicine.

##### EXAMINING BOARD IN ENGLAND.

The examination is in two parts, and both parts are held in the months of June and December. Candidates may enter for Part I of the examination at any time after a registrable qualification in Medicine, Surgery, and Midwifery has been obtained, and the divisions may be taken separately or together. Candidates may enter for Part II of the examination on the completion

of a year of special study of Psychological Medicine after a registrable Medical Qualification in Medicine, Surgery, and Midwifery has been obtained, provided that Part I has been previously passed, and on production of the following certificates :—

(a) Of having attended Clinical Instruction for at least two months at a recognised Hospital for Nervous Diseases, or in the Department for Nervous Diseases of a recognised General Hospital.

(b) Of having held a resident appointment at an Institution for Mental Diseases where Clinical Instruction is given, recognised for the purpose, for the period of six months; or of having attended Clinical Instruction in Psychological Medicine at a recognised Institution during twelve months.

Graduates in Medicine or Surgery of India, Colonial, and Foreign Universities recognised by the Examining Board in England, but whose degrees are not registrable in this country, may enter for the Examination for the Diploma in Psychological Medicine on fulfilling the same conditions in regard to study. But it should be noted that Licentiates of the Colleges of Physicians and Surgeons in India and Licentiates of State Boards in India are not included in this category and are not admissible for this Diploma.

The two parts of the examination comprise the following subjects :—

PART I.—(a) Anatomy (Macroscopic and Microscopic) and Physiology of the Nervous System; (b) Psychology.

PART II.—(a) Clinical Neurology and Neuropathology; (b) Psychological Medicine, including psychoneuroses and mental deficiency, and their legal relationships.

The fee for admission to each part is £6 6s.

NATIONAL UNIVERSITY OF IRELAND—UNIVERSITY COLLEGE, CORK.

A Medical Graduate of the College may enter for the Examination for the Diploma in Psychological Medicine, provided that, after graduation, he has during six months either taken out a course of instruction in Mental Diseases or acted as Resident Medical Assistant in a Mental Hospital.

Licensed Medical Practitioners other than Graduates of the College are eligible for the Diploma only after pursuing in the College a six months' course of instruction in Mental Diseases. Admission to this course requires the special permission of the Academic Council.

The Examination will include the following Subjects :—

(1) Normal and Pathological Psychology.

(2) Diseases and Pathology of the Brain and Spinal Cord.

(3) Anatomy of the Nervous System.

(4) Physiology of the Nervous System.

*Fees.*

Course, £5 5s. 0d.; Examination £5 10s. 0d.

## UNIVERSITY OF LEEDS.

The Examination for the Diploma in Psychological Medicine is in three parts.

Candidates, before entering for the first part of the examination, must produce evidence—

- (a) (1) Of being graduates in Medicine of at least one year's standing.
  - (2) Of having attended after graduation, approved courses of instruction in the subjects of examination.
  - (3) Of having acted as Clinical Clerk or Assistant Medical Officer in an Asylum, recognised for this purpose, for a period of at least six months.
  - (4) Of having attended a course of systematic instruction on the normal and morbid anatomy of the brain for a period of six months in the recognised laboratories of the University.
- (2, 3 and 4 may be taken concurrently, and as evidence of (4) must be produced a laboratory note-book record of practical work which has been regularly inspected and signed by a recognised teacher.)
- (b) (1) Of having acted as Assistant Medical Officer in an Asylum of not less than 500 beds for a period of at least two years.
  - (2) Of having, during or after this period, attended approved courses of instruction in the subjects of examination.
  - (3) Of having attended a course of systematic instruction on the normal and morbid anatomy and histology of the brain for a period of six months in the recognised laboratories of the University.
- (As evidence of this must be produced a laboratory note book record of practical work which has been regularly inspected and signed by a recognised teacher.)
- (4) In addition to the laboratory work under (3), or in lieu of three months thereof, candidates may submit a dissertation which must embody the results of personal observations or original research in relation to psychological medicine, provided always that original work, published in scientific journals, or in the Proceedings of learned societies, or separately, shall be admissible in lieu of or in addition to a dissertation specially written for the diploma.

### *Subjects of the Examination.*

PART I.—(1) The Development, Anatomy and Histology (Human and Comparative) of the nervous system; (2) The Physiology of the Nervous System and of the organs of special sense; (3) General Psychology.

PART II.—(4) The pathology of the nervous system.

PART III.—(5) Clinical Psychiatry; (6) Experimental and Morbid Psychology; (7) (a) Clinical Neurology, (b) Mental Hospital administration, (c) Medico-legal aspects of insanity.

Candidates, in order to pass, must satisfy the examiners in the practical and clinical parts of the examination in Parts II and III respectively.

Candidates may present themselves for the three Parts of the examination separately or at the same time, provided that no candidate shall be allowed to pass in Part II unless he has

already passed in Part I, or in Part III unless he has already passed in Parts I and II. No candidate's name will be published until he has satisfied the Examiners in all three Parts of the examination.

The fee for the course is £10 10s. and for the examination £6 6s.

#### UNIVERSITY OF LONDON.

The examination for the Academic Diploma in Psychological Medicine, London, consists of two parts, A and B. The examination is held twice a year; Part A in March and October; Part B in April and November. Part A must be passed before Part B.

The examination is open to candidates whose names are on the Medical Register and who have attended a prescribed whole-time course for six months at a College or School of the University and have obtained the prescribed clinical experience at a recognised Institution for Mental Diseases.

PART A.—(i) Anatomy, Histology and Physiology of the Nervous System (written and practical).

(ii) Psychology (written and oral).

PART B.—(i) Neurology (written, clinical and oral).

(ii) Psychological Medicine (written, clinical and oral).

The fee for each part of the examination is £6 6s.

[Lectures and practical courses of instruction are provided at the Maudsley Hospital, Denmark Hill, London, S.E.5, commencing in January (Fee £15 15s.). The courses at the Bethlem Royal Hospital are at present in abeyance.]

#### UNIVERSITY OF MANCHESTER.

The examination for the Diploma is in two parts, and candidates before entering for the first part of the Examination must produce evidence

(1) of having held a registrable qualification in Medicine, Surgery, and Midwifery for one year; and (2) of having attended approved practical courses of instruction in the Development, Anatomy, and Physiology of the nervous system; and an approved course of Psychology, including Experimental Psychology.

Before presenting themselves for Part II, candidates must produce evidence of having attended (a) An approved practical course of instruction in Pathology in relation to the nervous system; (b) A course of Clinical Neurology; (c) Approved courses of instruction in Psychological Medicine, namely, (i) Mental Diseases, (ii) Psychoneuroses, (iii) Mental Deficiency; (d) Clinical instruction for six months in an approved Hospital for Mental Diseases.

At least two terms of the year of study must be taken in the University; the remaining term may be taken at the University or at some approved Institution.

Part I of the Examination is held in March and June, and Part II in June and December in each year.

The composition fee for the full course of study, exclusive of the clinical instruction under (d) above, is £26 5s.

The fee for the examinations is £16 16s. 0d.

# TRINITY COLLEGE, UNIVERSITY OF DUBLIN.

The Diploma is awarded on the result of a special examination held for candidates who have completed a recognized course of study.

1. The candidate must be a Registered Medical Practitioner.

2. The candidate must, subsequent to registration, have held for at least twelve months a resident medical appointment in a recognised Institution for the treatment of Mental Diseases, or must have held such a resident appointment for six months, and have also attended daily for six months on the practice of an approved Institution as aforesaid in which clinical instruction is given, or of an Institution for Mental Defectives, or for Functional Nervous Disorders, such periods not to be concurrent.

3. The candidate must, subsequent to registration, have attended the following courses of instruction, viz:—

## A.—Courses for Part I of the Examination:—

(1) Three months' systematic and practical instruction in the Anatomy, Histology, and Development of the Nervous System and allied organs.

(2) Three months' systematic and practical instruction in the Physiology of the Nervous System and allied organs, including Bio-Chemistry.

(3) Two months' instruction in systematic and experimental Psychology.

These courses may be attended concurrently, provided that not less than five months in all be devoted to them.

## B.—Courses for Part II. of the Examination:—

(1) Three months' systematic and practical instruction in the Pathology (including Chemical Pathology) of the Nervous System and allied organs, and in the pathological and bacteriological methods employed in the diagnosis and treatment of Mental and Nervous Diseases.

(2) At least two months' instruction in systematic and clinical Neurology at an approved Special Hospital for Nervous Diseases, other than a Mental Hospital, or in an approved General Hospital having suitable facilities for such instruction.

(3) At least three months' instruction in systematic and clinical Psychiatry, including Psycho-Neuroses, Mental Deficiency, the Medico-Legal relations of Insanity and Mental Defect and Mental Hospital Administration.

The Examination to be passed by the candidates is divided into two parts, which may be taken in the same term, provided that the candidates must have passed Part I before presenting themselves for Part II.

Candidates for Part I may present themselves for examination on completion of the courses of study set forth in 3 A above, but must have completed the required period of residence, as well as the courses set forth in 3 B, before presenting themselves for Part II.

Examinations for Parts I and II will be held in March, June, and December. Candidates are required to send their names to the Registrar of the School of Physic at least two weeks before the first day of examination.

*Fees.*

Course A (1)—£2 2s.; (2)—£2 2s.; (3)—£3 3s. Graduates of the University of Dublin, £2 2s.

Course B (1)—£2 2s., (2) £3 3s.

For each part of the examination, £6 6s.

**Diplomas in Psychiatry.**

## UNIVERSITY OF DURHAM.

The Examination for the Diploma in Psychiatry is held in June and consists of two parts which can be taken either separately or together, viz.:—

(I) Anatomy, physiology, pathology, and bacteriology;

(II) Psychology and experimental psychology, neurology, and psychiatry (systematic and clinical).

A candidate must hold a medical qualification registrable in the United Kingdom and must have attended, subsequent to passing his qualifying examination, the following courses of instruction:—(a) Anatomy; (b) Physiology, histology and chemistry of the nervous system; (c) Pathology; (d) Bacteriology; (e) Psychology and Experimental Psychology; (f) Clinical Neurology; (g) Psychiatry; (h) Clinical Psychiatry.

The fee for the examination is 10 guineas, and the Composition Fee for the course of instruction is £35. The course lasts about one year.

## EDINBURGH.

The course is given during the Spring Term—January to March.

There are two examinations for the Diploma, and these are held twice yearly, in March and July.

*Subjects:*

PART I.—(1) Anatomy of the Nervous System; (2) Physiology of the Nervous System; (3) Psychology.

PART II.—(1) Neuro-Pathology; (2) Clinical Psychiatry; (3) Clinical Neurology.

Candidates for the Diploma must be graduates in Medicine and Surgery of the University of Edinburgh, or hold corresponding degrees or qualifications of some other licensing body registrable with the General Medical Council in Great Britain, or of such other Universities or Medical Schools as are recognised for the purpose by the University Court.

Candidates shall, subsequent to the date of graduation or of obtaining the qualification in Medicine and Surgery specified above, have held (a) A resident appointment for one year in a hospital for Mental Disorders approved by the Faculty of Medicine; or, alternatively, (b) A six months' appointment as defined in (a) and six months' practical study of Nervous Diseases



in a special or general hospital approved by the Faculty of Medicine, and they shall have attended the courses of instruction as defined in Parts I and II.

*Fees.*—The fee for the course is approximately £30. The fees for examination are £12 12s.

### Diplomas in Public Health.

#### EXAMINING BOARD IN ENGLAND.

*(The following regulations apply to all candidates.)*

The Diploma in Public Health is awarded by the Royal College of Physicians of London and the Royal College of Surgeons of England, under conditions laid down by the General Medical Council.

I. Candidates must have obtained a registrable Qualification in Medicine, Surgery and Midwifery.

II. The Examination consists of two Parts. Both Parts of the Examination are held in January, June and October in each year.

III. Candidates may enter for Parts I. and II. separately or at the same time, but they must pass Part I. before proceeding to Part II.

IV. The Examination in each Part will be written, oral, and practical. Part II. will include a practical examination in Infectious Diseases, Food Inspection, and Inspection of selected Premises.

V. The fee for admission to each Part of the Examination is £6 6s. for each Part.

#### CONDITIONS OF ADMISSION.

I. Candidates will be admissible to Examination in Part I. on producing evidence—

(1) Of being in possession of a registrable Qualification in Medicine, Surgery, and Midwifery.

(2) Of having attended during a period of not less than 280 hours at an Institution recognised by the Examining Board in England, after obtaining a registrable qualification, practical instruction in

(a) Bacteriology and Parasitology (including Immunology, Serology, Medical Entomology, etc.), especially in their relation to diseases of man and to those diseases of the lower animals which are transmissible to man.

(b) Chemistry, Physics, Radiology and Electrolgy, in relation to public health.

(c) Meteorology and Climatology, in relation to public health.

II. Candidates will be admitted to Part II. of the Examination on producing evidence—

(1) Of having been in possession of a registrable Qualification in Medicine, Surgery, and Midwifery during not less than two years, of being registered by the General Medical Council, and of having completed the curriculum

for the Diploma extending over a period of 12 calendar months (or an academic year of whole time study covering a period of not less than 9 calendar months) subsequent to the attainment of a registrable qualification.

(2) Of having attended, after obtaining the registrable Qualification, instruction during not less than 120 hours at an Institution recognised by the Examining Board in England in the following subjects:—

(a) The Principles of Public Health and Sanitation.

(b) Epidemiology and Vital Statistics.

(c) Sanitary Law and Administration (including Public Medical Services).

(d) Sanitary Construction and Planning.

(3) Of having attended for three months the clinical practice of a hospital for infectious diseases recognised by the Examining Board in England and of having therein received instruction in the methods of administration. (At least 24 daily attendances of not less than 2 hours are necessary.)

(4) Of having been engaged during a period of not less than six months in acquiring a practical knowledge of the duties, routine and special, of public health administration under the supervision of a Medical Officer of Health, and of having received, from such officer or other competent Medical Officer during not less than three hours on each of 60 working days, practical instruction in those duties and also those relating to

(a) Maternity and Child Welfare Service.

(b) Health Service for children of School age.

(c) Venereal Diseases Service.

(d) Tuberculosis Service.

(e) Industrial Hygiene.

(f) Inspection and control of Food including meat and milk.

The above certificate (4) must be obtained from a Medical Officer of Health who devotes his whole time to public work, or from a Medical Officer of Health of a Sanitary area having a population of not less than 50,000, or in Ireland the Medical Superintendent Officer of Health of a County or County Borough having a population of not less than 50,000.

(Instruction in (a) to (f) must include attendance at the centres, clinics, institutions and premises concerned.)

Recognised laboratory instruction can be obtained in London at:—St. Bartholomew's, Guy's, University College, King's College, Charing Cross, St. George's, St. Mary's, St. Thomas's, Westminster, Middlesex, Royal Institute of Public Health,

Royal Naval College, Greenwich; Royal Army Medical College, Millbank; London School of Hygiene and Tropical Medicine; and at the Universities of Birmingham, Bristol, Cambridge, Leeds, Liverpool, Manchester, Durham (College of Medicine), and Sheffield; and at the following Institutions: Bradford Technical College; Brighton Technical School; The Welsh National School of Medicine, Cardiff; School of Medicine of the Royal Colleges, Edinburgh; University College, Nottingham; the Municipal College, Portsmouth.

It may be also noted that laboratory courses for Part I may be taken in the Public Health Laboratory of the University of Bombay and the Haffkine Institute, Parel; in the Calcutta School of Tropical Medicine; and in the University, Lucknow; while the Municipal Infectious Diseases Hospital at Bombay and the Sealdeh Fever Hospital at Calcutta are recognised for the course of Fever Hospital practice required by paragraph (2) above, of the regulations for admission to Part II.

#### SCOTTISH DIPLOMA.

A Diploma in Public Health is awarded jointly by the Royal College of Physicians of Edinburgh, the Royal College of Surgeons of Edinburgh, and the Royal Faculty of Physicians and Surgeons of Glasgow. The examination is held in October in Edinburgh and in March in Glasgow.

*Fees.*—£12 12s. for the whole examination or £6 6s. for each part.

#### THE ROYAL INSTITUTE OF PUBLIC HEALTH.

This Institute provides courses of instruction for the degrees and diplomas in Public Health of all the Universities and Royal Colleges of Physicians and Surgeons in the United Kingdom and facilities for Research.

The *fees* for the Diploma Course, etc., are as follows:—Laboratory Instruction (Chemistry, Physics, Meteorology, Electrolgy, Radiology, Bacteriology and Parasitology), Public Health Administration, Hygiene and Sanitation, 50 guineas; Fever Hospital Administration, 4 guineas.

The Secretary advises that candidates for the Diploma coming from India should immediately on arrival seek an interview with him for the purpose of obtaining advice as to the best procedure such candidates should adopt.

*Fuller information can be obtained either through the University Bureau or Local Advisory Committee in India and the High Commissioner for India (Education Department), London, or direct from the Secretary to the Royal Institute of Public Health, 23, Queen Square, London, W.C.1.*

## UNIVERSITIES.

Diplomas in Public Health are also awarded by the Universities of Birmingham, Bristol, Durham, Leeds, London, Liverpool, Manchester, Wales, Aberdeen, St. Andrews, Edinburgh, Glasgow, Belfast, Trinity College, Dublin, and the National University of Ireland, and the conditions conform generally to those of the Examining Board in England, though the requirement is added that the necessary courses must (except for the External D.P.H. of the University of London\*) be pursued at the University concerned. For the fees, etc., see under the University concerned in Section II of this Handbook.

## Diploma in Medical Radiology and Electrology.

## UNIVERSITY OF CAMBRIDGE.

The course for this Diploma extends over a period of not less than *nine* months, which embraces:—

- (1) Four months' lectures and practical work in (a) Physics, (b) Radiology and Electrology.

This part of the course may be done either in Cambridge or in London.

- (2) Three months' clinical instruction and clinical practice in the radiological department of a hospital recognised for this purpose by the Committee for the Diploma.

This part of the course must be done in London.

- (3) Two months as clinical clerk in the radiological department of a recognised hospital.

This part of the course may be done either in London or in certain large provincial hospitals.

- (4) Three months' instruction in the Radiological and Electrological Department of a recognised Hospital.

Courses (2) and (4) are to run concurrently.

The course begins each year about October 1st, both in Cambridge and in London. The course in Cambridge is open to non-members of the University, subject to the condition that their names are enrolled for the purpose at the Registry of the University, and that they pay a fee of £1 11s. 6d. in respect of each quarter during which or any portion of which their names are so enrolled.

The examination for the Diploma is in three parts:—

- (1) PART I.—Physics. (Examinations in February and July.)

- (2) PART II.—Radiology and Electrology. (Examinations in July and October.)

Before admission to Part I a candidate must produce evidence that he holds a medical qualification approved by the Committee, and such qualification must have been held for not less than a year before a candidate may enter for Part II. Only such *Indian medical qualifications as are approved by the General Medical Council for purposes of registration are recognised by the Committee.*

\* The Regulations provide for attendance at recognised Institutions and Hospitals.

*Fees.*

£ s. d.

Composition fee for covering lectures and practical work for Parts I and II, and three months' clinical instruction in the radiologist department of a recognised hospital:—(N.B.—This does not cover fees during the final three months as clinical clerk) ... ..

47 5 0

Fee for Part I of the Examination ...

10 10 0

Fee for Part II of the Examination ...

10 10 0

*Fuller information can be supplied either through the University Bureau or Local Advisory Committee in India and the High Commissioner for India (Education Department), London, or direct from G. Stead, Esq., M.A., Secretary for the Diploma in Medical Radiology and Electrolgy, Cavendish Laboratories, Cambridge.*

### Diplomas in Medical Radiology.

#### EXAMINING BOARD IN ENGLAND.

I. The Examination shall comprise:—

Part I. Physics as applied to Radiology.

Part II. Medical Radiology, with special reference to its clinical application, including Radiodiagnosis, X ray-therapy and Radiumtherapy.

II. Both parts of the Examination will be held during the months of June and December.

III. The Examination in each Part will be written, oral, and practical.

IV. Candidates holding a Qualification in Medicine, Surgery, and Midwifery registrable in the British Register, or the M.D., or M.B., B.S. Degrees of any University recognised by the Examining Board, are eligible for admission to the Examination on fulfilling the conditions of these Regulations.

V. The course of study extends over one academic year (nine months) of full-time study subsequent to the attainment of a recognised qualification, as specified in Paragraph IV.

VI. The following certificates must be produced before admission to the Examination, viz.:—

(a) *For admission to Part I.:*

Evidence of having attended a course of instruction in Physics as applied to Radiology at a recognised Medical School or Institution for not less than three months.

(b) *For admission to Part II.:*

Evidence of having attended at a recognised Hospital courses of instruction, theoretical and practical, in Medical Radiology, including Radio-diagnosis, X ray-therapy, and Radium-therapy, with clinical experience, for three terms.

VII. Candidates may enter for Parts I. and II. either together or separately, subject to the production of the required certificates; but no candidate is permitted to proceed to Part II. of the Examination until he has passed in Part I.

VIII. The fee for admission or re-admission to each Part of the Examination is £6 6s. 0d.

#### UNIVERSITY OF EDINBURGH.

Candidates for the Diploma in Radiology must be graduates in Medicine and Surgery of the University of Edinburgh, or hold corresponding degrees or qualifications of some other licensing body registrable with the General Medical Council in Great Britain or of such other Universities or Medical Schools as are recognised for the purpose by the University Court.

Candidates shall not be admitted to the examination for the Diploma until after the lapse of not less than one year from the date of obtaining the qualification in Medicine and Surgery specified above, and they shall have satisfactorily attended the prescribed courses.

The Course of Study begins in October and extends over a period of not less than three terms subsequent to the attainment of a recognised qualification. It occupies the whole time of the candidate.

The examination shall be written and practical, and shall be in two parts—(a) Physics; (b) Radiology.

There shall be two periods of examination—one in July and the other in October.

Fees for courses : Physics, £12 12s. ; Radiology, £12 12s. ; and Special Hospital Fee, £12 12s.

Examination Fees : Physics, £6 6s. ; Radiology, £6 6s.

#### UNIVERSITY OF LIVERPOOL.

The University of Liverpool grants a Diploma in Medical Radiology and Electrology—(D.M.R.E.).

This Examination includes Part A (an examination in Physics) and Part B (an examination in Radiology and Electrology). Both parts may be taken at one examination or at separate examinations; the examination for Part A is held in March and June each year and for Part B in June only. The Diploma course is open to candidates who hold a registrable qualification approved by the University in Medicine and Surgery and have pursued approved courses prescribed by the University for the examination.

The courses laid down are :—

(a) Physics—a course of study extending over two terms (two half days a week) ;

(b) Courses of instruction extending over not less than nine months (i) in Radiology; (ii) in Electrology, in a recognised X ray and electro-therapeutic department of a hospital or hospitals.

Fees.—Diploma Examination, £5 5s. ; or £3 3s. for each part, if Parts A and B are taken separately; on admission to Diploma, £1.

The fee for the course is £31 10s., including registration fee.

## UNIVERSITY OF LONDON.

The course for the Academic Diploma in Medical Radiology is open to registered medical practitioners and graduates in Medicine of London or other approved University.

The approved course of study extends over not less than one Academic year at one or more of the Colleges or Schools of the University.

The course will consist of lectures and demonstrations as well as practical instruction in all three subjects, as follows:—

Part I: Physics and Electro-technology—approximately 50 lectures and demonstrations and 100 hours practical instruction.

Part II: Radiography, Radiodiagnosis and Radio-therapy—a course extending over three terms.

The Examination for the Academic Diploma in Medical Radiology consists of two parts. Candidates may enter for Part I and Part II at the same Examination, or may enter for Part I only. A candidate will not be permitted to proceed to Part II of the Examination unless he satisfies the Examiners at Part I.

Part I of the Examination will be held twice in each year beginning on the second Monday in July and on the second Monday in December. Part II of the Examination will be held twice in each year beginning on the Monday in the week following that in which the Examination for Part I is held.

Fees—£10 10s. for the whole examination, or £5 5s. for each Part.

### Diplomas in Tropical Medicine and Hygiene.

#### EXAMINING BOARD IN ENGLAND.

Candidates must produce evidence of being in possession of a registrable qualification in Medicine, Surgery, and Midwifery, and of having attended subsequently to obtaining such registrable qualification:—

(i) *For admission to Section A:* Practical instruction in Pathology, Protozoology, Helminthology, Entomology, and Bacteriology in an Institution recognised for this purpose, together with the clinical practice of a hospital recognised for the study of Tropical Diseases during not less than three months;

(ii) *For admission to Section B:* Instruction in Tropical Hygiene and Sanitation in an Institution recognised for this purpose during a further period of not less than two months.

The Examination comprises written, oral, and practical examinations in the following subjects:—

*Section A.*—Clinical Tropical Medicine and Surgery; applied Pathology, Zoology, and Elementary Bacteriology.

*Section B.*—Tropical Hygiene, including Epidemiology. Medical Zoology, and Bacteriology in relation to Hygiene.

Graduates (M.B., B.S., or M.D.) in Medicine and Surgery of Indian, Colonial and Foreign Universities recognised by the Examining Board in England, whose degrees are not registrable in this country, may enter for the examination for the Diploma in Tropical Medicine and Hygiene on fulfilling the above conditions in regard to study.

The Examination takes place in the months of January, April and July. The Fee is £9 9s., which entitles Candidates to admission for the first time to either or both Sections, even though Section B be not taken at the same time as Section A. The fee for admission to re-examination, after failure, is £5 5s. for Section A and £4 4s. for Section B.

The Hospitals and Laboratories recognised for this Diploma are The London School of Hygiene and Tropical Medicine (*see* page 110), The Royal Army Medical College, Millbank, The School of Tropical Medicine, Liverpool, and The School of Tropical Medicine, Calcutta.

#### UNIVERSITY OF EDINBURGH.

This University grants a Diploma in Tropical Medicine and Hygiene. The course is given during the Autumn and Spring Terms, beginning in October and the examinations are held in December and March.

Candidates must be graduates in Medicine and Surgery of the University of Edinburgh, or hold corresponding degrees or qualifications of some other licensing body registrable with the General Medical Council of Great Britain, or of such other Universities or Medical Schools as are recognised for the purpose by the University Court. They must have attended the courses in: Tropical Hygiene, Bacteriology, Entomology and Parasitology, Diseases of Tropical Climates (Systematic and Clinical), Vector Control, Tuberculosis, Venereal Diseases. They must also attend a practical course in a subject to be selected.

The fees for the Course amount to about £37 10s.

*Examination Subjects:* Tropical Hygiene, Bacteriology, Diseases of Tropical Climates, Entomology and Parasitology, Tropical Clinical Medicine, Optional Subject.

The fees for the whole examination are £6 6s.

#### UNIVERSITY OF LIVERPOOL.

This University grants a Diploma in Tropical Medicine. It is open to candidates who possess a qualification to practise Medicine recognised by the University, and who present satisfactory certificates of having attended approved courses of study for three months, and pass the prescribed examination. The course can be taken at the Incorporated Liverpool School of Tropical Medicine, the fee for the course being £21, for the



examination £5 5s., and on obtaining Diploma £1. The examination is held twice a year: at the end of the Autumn and Lent Terms.

The University also grants a *Diploma in Tropical Hygiene*. Candidates must possess a qualification approved by the University in Medicine and Surgery and must have passed the examination for the Diploma in Tropical Medicine of the University. The course lasts three months, two examinations being held each year, one in March and one in June. The fee for the course is £12 16s., for the examination £5 5s., and on obtaining the Diploma £1.

### **Tuberculous Diseases Diploma.**

#### **UNIVERSITY OF WALES.**

1. This Diploma is open to a candidate after the lapse of not less than two years from the date of obtaining a qualification in Medicine, Surgery and Midwifery, registrable in Great Britain, or in the Dominions, Colonies and Dependencies of the British Empire.

2. Every candidate must have held, for not less than twelve months, a resident medical or surgical appointment on the staff of a Tuberculosis Hospital, or Sanatorium, or at an Orthopaedic Institution providing not less than one hundred beds for cases of surgical tuberculosis, or shall satisfy the Faculty of Medicine that he has pursued a special study of tuberculosis equivalent to the above for a period of not less than twelve months.

3. A candidate whose resident appointment has been held at a Hospital, Sanatorium or Institution receiving surgical cases of tuberculosis only, shall produce a certificate of having attended a course of instruction in pulmonary tuberculosis extending over one term in the Welsh National School of Medicine, or an equivalent course of instruction extending over at least the same period in an institution approved by the University for this purpose.

4. A candidate whose resident appointment has been held at a Hospital, Sanatorium, or Institution for medical cases of tuberculosis only, shall produce a certificate of having attended a course of instruction in non-pulmonary tuberculosis extending over one term in the Welsh National School of Medicine, or an equivalent course of instruction extending over at least the same period in an institution approved by the University for this purpose.

5. Every candidate shall produce a certificate of having attended a course of instruction in the epidemiology, pathology and bacteriology of tuberculosis extending over one term in the Welsh National School of Medicine (Fee £6 6s.), or an equivalent course of instruction extending over at least the same period in an institution approved by the University for this purpose.

Courses certified as above (paras. 3, 4 and 5) can be taken concurrently. A list of institutions approved for these purposes may be obtained on application to the Registrar of the University.

#### EXAMINATION.

The examination for the Tuberculous Diseases Diploma includes two parts, namely :—

Part I.—(a) A written examination on the medical and surgical problems of tuberculosis;

(b) Oral and practical work, including the examination of patients, the recording of the physical signs, the recognition of specimens, the interpretation of X-ray films, and a viva voce examination.

Part II.—A written and practical examination on the epidemiology, pathology and bacteriology of tuberculosis.

Every candidate is required to satisfy the examiners in both parts in the same examination.

Examinations are held annually in the first week in June.

Notice of candidature together with the University Registration fee (£1 1s.), the entrance fee (£10 10s.), and the necessary certificates must be forwarded to the Registrar of the University, University Registry, Cathays Park, Cardiff, not later than May 1.

#### Post-Graduate Colleges.

Post-graduate study can be pursued in most medical schools and hospitals, but the following medical colleges and hospitals concentrate on providing post-graduate study only : British Post-Graduate Medical School (University of London) (*see* page 103); West London Post-Graduate College; North-East London Post-Graduate College.

##### NORTH-EAST LONDON POST-GRADUATE COLLEGE.

This College is connected with the Prince of Wales's General Hospital which is situated on the High Road, South Tottenham. It is recognised by the University of London as a place of post-graduate work for the M.D. and M.S. degrees and is authorised to give certificates accordingly. It is also recognised for post-graduate study by the India Office and the Admiralty, and by the University of Cambridge in respect of bacteriology for the Diploma in Public Health, and of that of Radiology.

It comprises departments in Medicine, Surgery, Gynæcology, Children's Diseases, Diseases of the Ear, Nose, and Throat, Diseases of the Eye, Dermatology, Anæsthetics, Medical Electricity and Radiology, Dentistry, Pathology and Venereal Diseases. Intensive "all-day" Courses of two weeks' duration are held at intervals throughout the year.

*Fees.*—For three months in any single clinical department, £5 5s.; for one month in all departments, £3 3s.; for

three months, £6 6s.; for a year £10 10s.; for a perpetual ticket, £15 15s. The fees for the Intensive Courses are £5 5s., or £3 3s. for either week.

*Fuller information can be obtained from the University Bureau or Local Advisory Committee in India and the High Commissioner for India (Education Department), London, or direct from J. Browning Alexander, Esq., M.D., M.R.C.P., Dean, North East London Postgraduate College, the Prince of Wales's General Hospital, Tottenham, N.15.*

#### WEST LONDON POST-GRADUATE COLLEGE.

At this College, special provision is made for post-graduate study and medical practice.

The special Clinics are: Ophthalmology, Oto-Rhino-Laryngology, Dermatology, Dental Department, Gynaecology, Neurology Paediatrics, Orthopaedics, Genito-Urinary Disease, Venereal Disease, Electrical Department, X-Ray Department.

There are also lectures given on the various subjects.

*Fees.*—Hospital Practice, including all the ordinary demonstrations and lectures, is £2 2s. for one week; £5 5s. for three weeks; £6 6s. for one month; £9 9s. for two months; £12 12s. for three months. A course of attendance on either the medical or the surgical practice alone may be taken out for a fee of £10 10s. for three months. The fee for one month's attendance in any one special department, other than Medicine or Surgery, is £1 1s.

A ticket for the Hospital Practice or for any of the above courses will be issued at any date.

*Fuller information can be obtained from the University Bureau or Local Advisory Committee and the High Commissioner for India (Education Department), London, or direct from the Secretary, The Post-Graduate College, West London Hospital, Hammersmith, London, W.6.*

#### FELLOWSHIP OF MEDICINE.

The aims of the Fellowship of Medicine are to provide in Great Britain facilities for Post-Graduate Education, and to promote mutual hospitality between the medical profession at home and that overseas.

Special Courses are organised by the Fellowship in co-operation with most of the London Special and General Hospitals. Fees range from £1 1s. to £7 7s.

These Courses are open only to Members of the Fellowship of Medicine; the Annual Subscription is £1 1s. per annum, which includes the subscription to the Fellowship Journal.

*Further information can be obtained either through the University Bureau or Local Advisory Committee and the High Commissioner for India (Education Department), London, or direct from the Secretary to the Fellowship of Medicine, 1, Wimpole Street, London, W.1.*

## DENTISTRY.

To become registered as a dentist it is necessary to obtain a professional qualification either by obtaining the Licence in Dental Surgery of one of the Colleges mentioned below, or by becoming a graduate or licentiate in dentistry or dental surgery of a recognised University in the United Kingdom.

It should be noted that the registration of dentists is effected under the Dentists Acts 1878 to 1923 by the Dental Board of the United Kingdom, and the practice of dentistry by un-registered persons is under the Act of 1921 entirely prohibited.

The Degree or Licence in Dental Surgery is awarded by the Universities of Birmingham, Bristol, Durham, Leeds, Liverpool, London, Manchester, Sheffield, St. Andrews, Dublin, National University of Ireland, Queen's University, Belfast, and by the Royal Colleges of Surgeons of England, Edinburgh, and Dublin, and by the Royal Faculty of Physicians and Surgeons of Glasgow.

The preliminary requirements for the registration of Dental students are the same as those for Medical students (*see* page 178).

The regulations of the Licensing Bodies for the L.D.S. are, much the same in each case, and the course lasts four years, though for the Degree of B.D.S. the course lasts, as a general rule, five years.

Qualifications obtained in the British Dominions or in foreign countries are registered from time to time if the course of study and examination required for them is not less than that required for British qualifications, but special application has to be made in each case.

Application can be made either through the University Bureau or Local Advisory Committee in India, or direct to the College or University concerned.

### Royal College of Surgeons of England.

#### LICENTIATESHIP IN DENTAL SURGERY (L.D.S., R.C.S.).

1. A Candidate for the Licence in Dental Surgery of the Royal College of Surgeons of England is required—(a) to pass one of the Preliminary Examinations in General Education recognised by the Examining Board in England, and the Pre-Medical Examination in Science conducted by that Board—or one of the Examinations recognised by the Board in lieu thereof (*see* page 194); (b) to comply with the Regulations and to pass the several Examinations hereinafter set forth.

2. There are three Professional Examinations for the Licence in Dental Surgery, hereinafter called the First Examination, the Second Examination, and the Final Examination;

the curriculum of professional study extends over four years subsequent to the date of passing Part I of the Pre-Medical Examination.

### THE FIRST EXAMINATION.

The subjects of the First Examination are :—

Part I.—Dental Mechanics and Dental Metallurgy.

Part II.—General Anatomy and Physiology.

Part III.—Special Anatomy and Physiology of the teeth and associated parts.

The Examination is conducted during the months of February, May, and September unless otherwise ordered, and consists of a written Examination of three hours' duration and a practical Examination in Dental Mechanics in Part I; a written Examination of three hours' duration and an oral Examination in each of Parts II and III.

A Candidate may enter for Parts I, II, and III either together or separately on production of the required certificates of study, but no Candidate is permitted to present himself for Part III unless he has passed in Part II.

A Candidate for admission to Part I is required to submit with his application the following certificates :

(i) Of having been engaged for a period of not less than twenty-four months in acquiring a practical familiarity with the details of Dental Mechanics, of which at least twelve months must have been taken in the Mechanical Department of a recognised Dental School. The whole or any part of the remainder of the course may be taken as a pupil with a competent Dental Practitioner, provided that the duration of such course shall be at least twice the length of time required for the corresponding instruction taken in a Dental School.

(NOTE.—The instruction under a competent dental Practitioner referred to in the Clause must be taken *after* the Candidate has passed the recognised Preliminary Examination in General Education. Instruction in Dental Mechanics at a recognised Dental School will only be recognised for six months after Part I.—Chemistry and Physics—of the Pre-Medical Examination is passed, and before passing Part II of that Examination—Elementary Biology. No other professional study is recognised until both Parts of the Pre-Medical Examination have been passed.)

(ii) Of having attended at a recognised Dental School :—

(a) A course of lectures on Dental Mechanics.

(b) A course of lectures on Dental Metallurgy.

(c) A course of instruction in practical Dental Metallurgy.

(d) A course of instruction in practical Dental Mechanics including the construction and adjustment of six dentures, and the construction of various types of orthodontic appliances.

A Candidate for admission to Parts II and III is required to submit with his application the following certificates:—

(i) For Part II: of having attended at a recognised Medical School:

(a) Courses of instruction in Anatomy, including special demonstrations on prepared dissections, for three terms;

(b) A course of dissections during one term, the certificate to show that the Student has himself dissected the head and neck;

(c) Courses of instruction in Physiology, including Bio-chemistry and Bio-physics, for three terms;

(d) A course of instruction in Histology.

(ii) For Part III: of having attended at a recognised Dental School, subsequent to, or coincident with, the beginning of the courses for Part II:—

(a) A separate course of instruction in special Anatomy and Physiology of the teeth and associated parts;

(b) A separate course of instruction in Dental Histology including the preparation of microscopical sections.

## THE SECOND EXAMINATION.

1. The subjects of the Second Examination are Medicine, General Pathology, and Bacteriology.

2. The Examination is conducted during the months of February, June, and November, unless otherwise ordered, and consists of a written Examination of two hours' duration and an oral Examination.

3. No study for the Second Examination is recognised until a Candidate has passed Parts I and II of the First Examination. An interval of three terms (one academic year) must elapse between the completion of Parts I and II of the First Examination and admission to the Second Examination.

4. A Candidate for admission to the Examination is required to submit, with his application, the following certificates:—

Of having attended at a recognised Medical School and Hospital:

(a) Special courses of instruction for Dental Students in General Pathology and Bacteriology for two terms;

(b) Special courses of instruction for Dental Students in Medicine during two terms, including clinical lectures and demonstrations during the same period.

## THE FINAL EXAMINATION.

The subjects of the Final Examination are :—Part I., General Surgery (including Surgical Pathology); Part II., Dental Surgery and Pathology, and Practical Dental Surgery.

The Examination is conducted during the months of February, June, and November, unless otherwise ordered. Part I. consists of a written Examination of two hours' duration and an oral Examination; Part II. consists of a written Examination of three hours' duration, a clinical, a practical, and an oral Examination.

A Candidate may present himself for the Examination after passing the Second Examination on production of the required certificates of study, but no study for the Examination is recognised until a Candidate has passed the whole of the First Examination.

The following are the certificates which have to be submitted with the application to enter for the Examination :—

I. Of having been engaged in the acquirement of recognised professional study for four years subsequent to the date of passing Part I. of the Pre-Medical Examination in Science of the Examining Board in England.

II. *For admission to Part I. :*

Of having attended at a recognised Medical School and Hospital :

(i) Special courses of instruction for Dental Students in Surgery during two terms, and of having held the post of Surgical Dresser in the Out-patient Department subsequently, for three months :

(ii) The general surgical hospital practice for twelve months ;

(iii) Practical instruction in the administration of general and local anaesthetics. (This certificate may be obtained from a recognised Dental School and Hospital possessing Dental beds.)

III. *For admission to Part II. :*

(a) Of having attended at a recognised Dental School and Hospital :

(i) A course of instruction in Dental Surgery and Pathology (including Patho-Histology).

(ii) A separate course of instruction in Practical Dental Surgery

(iii) A course of instruction in Orthodontics.

(iv) A course of instruction in Bacteriology in relation to Dental Surgery.

(v) A course of instruction in Materia Medica, Pharmacology, and Therapeutics in relation to Dental Surgery.

(vi) A course of instruction in Radiology in relation to Dental Surgery.

(b) Of having attended at a recognised Dental Hospital the practice of Dental Surgery for two years.

IV. Before admission to Part I. of the Examination a Candidate must produce evidence of being 21 years of age.

Part I. must be passed before a candidate is permitted to present himself for Part II. of the Examination.

#### FEES.

The fee for the Licence in Dental Surgery is twenty guineas, payable on admission to the several Examinations, thus:—

			£	s.	d.
First Examination :	Part I. ...	...	4	4	0
	Part II. ...	...	3	3	0
	Part III ...	...	3	3	0
Second Examination	... ..	...	3	3	0
Final Examination :	Part I. ...	...	3	3	0
	Part II. ...	...	4	4	0
			<hr/> £21 0 0 <hr/>		

#### SPECIAL REGULATIONS RELATING TO EXEMPTIONS.

A Candidate applying for exemption from the Examinations, in accordance with the conditions hereinafter set forth, is required to produce evidence to show that the courses and examinations on which his application is based comply with the conditions of the Regulations for the Licence in Dental Surgery of the Royal College of Surgeons of England.

A Candidate may be exempted from Parts II. and III. of the First Examination if he produces evidence of having passed an Examination in the subjects of these Parts for a Degree (D.D.S. or B.D.S.) in Dental Surgery of a University whose Dental School is recognised by the Royal College of Surgeons of England.

A Candidate may be exempted from Part II. of the First Examination, or from the Second Examination, or from Part I. of the Final Examination respectively, if he produces evidence that he has passed an Examination in these subjects for a Qualification in Medicine and Surgery which is registrable in this country, or for a Degree in Medicine and Surgery of a University recognised by the Royal College of Surgeons in England.

A Candidate who is unsuccessful in any of the Examinations in the Dental subjects for the Licence of the Royal College of Surgeons of England may be admitted to re-examination without producing further certificates of study if he possesses a Dental Qualification which is registrable in this country.

A Candidate who produces evidence of having passed a recognised Preliminary Examination in General Education before 1st January, 1923, may be granted the following exemptions:—

(i) Professional study is recognised from the date of passing the Preliminary Examination.



(ii) Part I. of the Pre-Medical Examination (Chemistry and Physics) is taken as a Preliminary Scientific Examination.

(iii) Exemption from Part II. (Elementary Biology) of the Pre-Medical Examination.

(iv) Instruction in Dental Mechanics with a competent Dental Practitioner is recognised in full up to two years, only the courses set out in Paragraph (ii) on page 257 being required in addition for admission to Part I. of the First Examination.

(v) Exemption from the Second Examination.

#### INSTITUTIONS RECOGNISED BY THE ROYAL COLLEGE OF SURGEONS OF ENGLAND.

A. The following Dental Schools and Hospitals are recognised for the study required for admission to Parts I. and III. of the First Examination, and to Part II. of the Final Examination:—

(1) The Dental Schools and Dental Hospitals associated with the Universities whose Qualifications in Dental Surgery are registrable in this country. These Universities in this country are as follows:—Belfast, Birmingham, Bristol, Dublin, Durham, Ireland (National University), Leeds, Liverpool, London, Manchester, St. Andrews, and Sheffield.

(2) The Edinburgh Dental Hospital and School; The Glasgow Dental Hospital and School.

B. For the list of Medical Schools and Hospitals recognised for the study required for Admission to Part II. of the First Examination, to the Second Examination, and to Part I. of the Final Examination, see pages .

*Fuller information can be obtained either through the University Bureau or Local Advisory Committee in India and the High Commissioner for India (Education Department), London, or direct from the Director of Examinations, Examination Hall, 8-11, Queen Square, London, W.C.1.*

#### Licentiate in Dental Surgery of the Royal College of Surgeons, Edinburgh.

Preliminary registration as a Dental student by the General Medical Council is required before passing the necessary examinations. The Professional Course lasts four years and there are three professional examinations.

#### THE FIRST EXAMINATION.

PART I.—Biology.

PART II.—Anatomy and Physiology.

Candidates must produce evidence of having passed the Preliminary Examination, of having been registered as Dental Students, and of having completed their attendance on the prescribed courses.

This Examination is held in March, July, and October.

## THE SECOND EXAMINATION.

General Pathology and Bacteriology, Chemistry, Physics and Radiology in their applications to Dentistry.

## THE FINAL EXAMINATION.

PART I.—Surgery and Medicine.

PART II.—The Special Subjects of Dental Anatomy and Physiology, Dental Surgery and Pathology, Dental Materia Medica, Dental Mechanics, and Dental Metallurgy, and also a Practical as well as the Written and Oral Examinations in the subjects of Dental and Oral Surgery, Pathology, and Mechanics.

Candidates must produce certificates of having attained the age of twenty-one years, of having been registered as a Dental Student in the Register of the General Medical Council, and of having attended during a period of four years the Lectures and prescribed courses of instruction.

This Examination is held in March, July, and October.

It should be noted that a student must have attended the Practice (Surgical and Mechanical) of a recognised Dental Hospital, or of the recognised Dental Department of a General Hospital for two years, and have received practical instruction in Mechanical Dentistry from a registered Dentist, or in the Mechanical Department of a recognised Dental Hospital and School, either before or after registration for three years. (Two years' practical instruction will be held sufficient in the case of previously registered Medical Practitioners.)

Students desiring to take a Medical and Surgical Diploma in addition to the L.D.S. are afforded special facilities for doing so. The Triple Qualification is recommended. The minimum cost of the Professional Education, Triple Qualification and L.D.S. amounts to £198 10s. 6d.

FEEs.— First Examination, £5 5s.; Second Examination, £3 3s. Final Examination, £10 10s.

*Fuller information can be obtained either through the University Bureau or Local Advisory Committee and the High Commissioner for India (Education Department), London, or direct from Mr. David Thomson, Clerk of the College, 18, Nicolson Street, Edinburgh.*

## Royal Faculty of Physicians and Surgeons of Glasgow.

This Faculty also awards a Licence in Dental Surgery; the requirements conform generally with those for Edinburgh. The Examinations are slightly different.

**FIRST DENTAL EXAMINATION.**—This Examination consists of (a) Chemistry, Physics and Biology; (b) Dental Metallurgy and Dental Mechanics; (c) Human Anatomy and Physiology, including Bio-Chemistry and Bio-Physics. The fee is 6 guineas.

**FINAL DENTAL EXAMINATION.**—This Examination consists of : (a) Principles of Surgery; Medicine with Materia Medica and Therapeutics and Pathology and Bacteriology; (b) Dental Anatomy and Physiology, Dental Pathology, Bacteriology, and Surgery; (c) Dental Surgery (Practical) in a Dental Hospital. The fee is £10 10s.

These examinations are held in January, May, and October.

*Fuller information can be obtained either through the University Bureau or Local Advisory Committee in India and the High Commissioner for India (Education Department), London, or direct from the Secretary to the Royal Faculty of Physicians and Surgeons of Glasgow, 242, St. Vincent Street, Glasgow, Scotland.*

## Summary of Fees for full course.

				Period, Years.	Tuition, etc., fees.*	Examination and Graduation fees (excluding Matriculation).
					£ s. d.	£ s. d.
Birmingham	...	{ B.D.S. and L.D.S.	...	7	318 3 3	39 12 0
	...	{ L.D.S.	...	5	293 2 3	25 0 0
Bristol	...	{ B.D.S.	...	5	241 10 0	26 5 0
	...	{ L.D.S.	...	5	225 15 0	23 2 0
Durham	...	{ B.D.S.	...	5†	263 1 0	32 19 0
	...	{ L.D.S.	...	4†	242 16 0	21 13 0
Leeds	...	{ B.Ch.D.	...	5½	250 0 0	25 0 0
	...	{ L.D.S.	...	4½	247 0 0	22 0 0
Liverpool	...	{ B.D.S.	...	5	276 5 0	22 0 0
	...	{ L.D.S.	...	4½	210 12 0	17 0 0
London	...	{ B.D.S.	...	5	337 3 0	27 6 0
Guys Hospital (Dental Department).	...	{ L.D.S., R.C.S.	...	4	327 0 0	21 0 0
Kings College Hospital	...	{ B.D.S.	...	5	298 7 0	27 6 0
	...	{ L.D.S., R.C.S.	...	5	290 17 0	21 0 0
London Hospital	...	{ L.D.S., R.C.S.	...	4†	260 0 0	21 0 0
London Sch. of Med. for Women	...	{ L.D.S.	...	5	£100 (approx.)‡	21 0 0
	...	{ B.D.S.	...	4†	303 0 0	27 6 0
Royal Dental Hospital	...	{ L.D.S., R.C.S.	...	4†	(approx.) 283 6 6	21 0 0
University College Hos- pital Dental School.	...	{ L.D.S., R.C.S.	...	4†	252 0 0	21 0 0
Manchester	...	{ B.D.S.	...	5½	284 11 0	28 7 0
	...	{ L.D.S.	...	5	232 1 0	26 5 0
Sheffield	...	{ B.D.S.	...	5½†	265 0 0	19 0 0
	...	{ L.D.S.	...	4†	230 0 0	18 0 0
Edinburgh Dental Hos- pital.	...	{ L.D.S., R.C.S.	(Edin.)	4	187 12 0	18 18 0
Glasgow Dental Hospital	...	{ L.D.S.	...	4	217 0 0	16 16 0
St. Andrews§	...	{ L.D.S.	...	4	£200† (approx.)	10 10 0
	...	{ B.D.S.	...	5†	224 10 0	20 10 0
Queens University, Belfast	...	{ L.D.S.	...	4†	(approx.) 224 10 0	13 13 0
National University of Ireland.	...	{ B.D.S.	{ Dublin Cork ...	4 5	225 4 0 205 0 0	22 0 0
Trinity College Dublin	...	{ B. Dent. Sc.	(with B.A.)	4½	331 15 6†	15 8 0

\* Excluding books and instruments but including Students Union or Societies unless otherwise stated.

† Excluding Pre-Registration or First B.D.S. course.

‡ Excluding Student Union or Societies.

§ This University also awards a post qualification Diploma in Public Dentistry (see page 168).

|| Fees for the dental portion of the course, carried out at the University College Hospital Medical School (Dental Department), are additional.

## Examination fees (other than University fees).

L.D.S., R.C.S., £21 (excluding Preliminary Examination in General Education and Pre-Registration Examination).

L.D.S., R.C.S. (Edin.), £18 18s. 0d. (excluding Preliminary Examination in General Education and Pre-Registration Examination).

L.D.S., R.C.P.S. (Glasg.), £16 16s. 0d. (excluding Preliminary Examination in General Education and Pre-Registration Examination).

L.D.S., R.C.S. (Irel.), £21 (excluding Preliminary Examination in General Education and Pre-Registration Examination).

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SECTION IV

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ENGINEERING,  
AVIATION AND  
AERONAUTICAL ENGINEERING,  
AND  
TECHNOLOGY

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## ENGINEERING.

### Introduction.

A student who proposes to come to this country for training in Engineering should definitely decide before leaving India which branch he wishes to study. He would, therefore, be well advised to consult the University Information Bureau or Advisory Committee of his Province, where he may obtain full information and advice, and through whom he may submit on the appropriate form his application for admission to a University or College or Works, through the Office of the High Commissioner for India.

It should be borne in mind that the conditions of academic or professional training differ substantially in the various branches, and a student should not conclude on the basis of information which he may have received regarding one branch that similar facilities are available in another branch. If his aim is to qualify for Government appointment he should not fail to ascertain from the Public Service Commission or the Government Department concerned the exact conditions and regulations for recruitment, including the required qualifications and the lower and upper age limits. He will then be in a position to decide whether the necessary qualifications may not be just as well obtained in India, as, if so, there would be no necessity for him to proceed abroad.

If, however, he decide to proceed abroad, he should make sure that he has the educational qualifications required for admission to the academic or professional course which he desires to pursue in England or elsewhere, or, if he desires to undergo practical training, that the necessary facilities are available and that he possesses qualifications which will secure him admission to suitable works or factories.

Full information regarding the Matriculation or other Entrance Examinations of the Universities is given in Section II of this Handbook, but it may be noted briefly that a candidate holding—

- (a) a degree of a recognised Indian University, will be exempt from Matriculation Examinations of all Universities;
- (b) a First Class Intermediate Examination in the required subjects, will be exempt from Matriculation Examinations of all Universities except London and Oxford;
- (c) an Intermediate Examination other than First Class Intermediate, will be exempt from Matriculation Examinations of the Universities of Birmingham, Bristol, Durham (Armstrong College), Leeds, Liverpool, Manchester, Sheffield.

Most Universities are prepared to consider exemption from the first year of the course (or part thereof) of candidates with suitable qualifications, generally not less than a good Honours

degree, including Mathematics, Physics and Chemistry, but it must be realised that each application for such exemption is dealt with individually, and a student should therefore never assume that he will receive such exemption as a matter of course.

### Civil Engineering.

There are two main methods by which a student may be trained as a Civil Engineer.

(1) The first method is by serving as an articled pupil to a Civil Engineer for a period of not less than three years, and thus qualifying for admission to Sections A and B of the Associate-ship Examination of the Institution of Civil Engineers. (Fuller details of the regulations of the Institution are given on pages 276-282.) It should, however, be noted that a Civil Engineer will not as a rule accept a student for practical training until he has passed or been exempted from the Preliminary Examination of the Institution, and the latter is best secured by passing one of the specified examinations, e.g. a University degree or the Cambridge School Certificate Examination, in the prescribed subjects, before the student leaves India. A premium of approximately 300 guineas for a period of three years is generally required for the pupilage, and a student must not expect to receive pay, and should be prepared to meet the usual expenses of living, &c., in addition to the premium.

Special attention is drawn to the fact that although a student may in due course pass Sections A and B of the A.M.I.C.E. Examination he does not thus become entitled to election as an Associate Member. Further practical experience is required, and the application for the Associate Membership must be recommended by members of the Institution for the approval and acceptance of the Council.

(2) The alternative method of training as a Civil Engineer is by obtaining an Engineering degree at a University, and supplementing this academic qualification with a period of two years' practical training under a Civil Engineer.

For all Civil Engineers a practical field course in surveying is indispensable; suitable courses are arranged during vacation by Universities and Colleges offering degree and diploma courses. At least one "long vacation" field course in surveying is advised.

The main divisions of Civil Engineering are as follows:—

- Dock and Harbour Construction
- Large Sewage and Waterworks Construction.
- Railway Permanent Way.
- Municipal Engineering.
- Structural Steelwork.

Practical training is essential and is usually taken immediately after graduation. For training under a Civil Engineer after the degree has been obtained, a premium of £100 per annum is required and no pay is given. It should

be noted that, as a general rule, Civil Engineers are not prepared to take pupils for less than a year, and that consequently it is rarely possible to obtain satisfactory practical experience by short intermittent periods of training during vacations. A student who desires practical training in this country should therefore be prepared to stay here for at least one year after having obtained his degree.

For Civil Engineering training on a British railway similar conditions apply, though a premium of £150 per annum is sometimes asked, no pay being given. Students who are not in a position to remain in this country for the further period should apply to the Office of the High Commissioner for particulars of certain schemes whereby a year's practical Civil Engineering training may be obtainable on public works in India.

Dock and Harbour Engineering and Large Sewage and Waterworks experience is difficult to arrange, and in any case it is practically impossible to procure vacation training. Very substantial premiums up to £150 per annum may be required.

### **Municipal Engineering.**

To specialise in Municipal Engineering the usual training of a Civil Engineer is first necessary, followed by practical experience in public works and construction of various kinds. Suitable University courses, which include drainage, sewerage, water supply, roads and bridges, are provided at the Universities of London (University College), Manchester, and Glasgow. Practical training in Municipal Engineering and in Highway Engineering is usually taken under a Borough Engineer or under an Urban or Rural or County Surveyor at a premium which is usually not less than £100, no pay being given in return. In the branch of Structural Steelwork it is sometimes possible to obtain facilities without a premium, though such opportunities are not very frequent. In Ferro-concrete Construction it is almost impossible to obtain any practical experience and in any case a preliminary training in Structural Steelwork is necessary prior to later instruction in Concrete. The Secretary to the Institution of Municipal and County Engineers, 84, Eccleston Square, London, S.W. 1, is generally in a position to furnish information as to the extent and character of work being carried out in various parts of the United Kingdom.

### **Mechanical Engineering.**

Professional training in Mechanical Engineering may also be obtained in two ways, either (i) by undergoing a three to five years' apprenticeship with a firm of Mechanical Engineers, or (ii) by taking a University degree in Mechanical Engineering followed by two years' practical training. The preliminary qualifications required for admission to a degree course in



Mechanical Engineering are summarised on page 266. Students who take the apprenticeship method should supplement their practical training by attending evening classes at the nearest Technical College so that they may qualify in due course for the Associate Membership of the Institution of Mechanical Engineers (fuller details of which are given on pages 286-288). If this professional qualification is to be obtained in the minimum time, the Studentship Examination should be passed or exemption obtained therefrom before the practical work is begun.

Mechanical Engineering has many subdivisions and includes Steam Boilers, Steam Engines, Steam Turbines, Hydraulic Pressure Plant and Water Turbines, Internal Combustion Engines, Petrol, Oil and Gas, Machine Tools, Mechanical Handling Plant, Cranes and Lifting Appliances, Locomotives, Carriages and Wagons, Refrigeration, Workshop Production and Direction.

In Mechanical Engineering other than Locomotive, Carriage and Wagons, Firms do not generally require a premium, and subject to satisfactory service may even grant wages, although the practice in this respect differs and wages cannot be guaranteed. A student who desires Mechanical Training should in all cases be prepared for "no premium, no pay" terms.

Practical training in private locomotive works invariably involves a substantial premium, varying from £100 to £300 for a three years' period. A premium of £150 per annum without wages is invariable for training in the Locomotive Shops of a British Railway and vacancies are very restricted. Such training includes running shed and footplate experience, which, if separately obtained, involves a premium of £75 for the usual period of six months. In this connection special attention is drawn to the fact that Indian candidates for the Mechanical Engineering and Transport (Power) Departments of the Indian State Railways are normally only recruited in India, and that selected candidates must be under the age of 19. (Full details can be obtained from the Public Service Commission, India.)

It is desirable to point out that after the completion of an academic engineering course broad and comprehensive rather than narrow and specialist practical training is essential for real engineering competence. Specialisation to be valid must be based upon prior broad general experience.

Experience in mechanical workshops is arduous and good physique is essential.

### **Automobile Engineering.**

This includes two main branches, either (a) the study of the manufacture of automobile engines, or (b) general repair

## Electrical Engineering.

There are various methods of training and qualifying as an Electrical Engineer, but undoubtedly the best is that which is based on a University degree in Electrical Engineering followed by two years' apprenticeship in manufacturing electrical engineering works, appropriate to that branch of the profession in which a future career is sought. It is true that many firms in this country have also a four- or five-year apprenticeship course, but it should be carefully noted that admission to this course is as a general rule restricted to youths of about 17 years of age who have passed the Matriculation or equivalent examination in this country, and would not therefore appear suitable for Indian applicants.

Students who desire admission to a degree course in this country and exemptions from portions thereof must have the qualifications summarised on page 266 and given in fuller detail in Sections I and II of this Handbook.

After obtaining his degree in this country a student should receive, if possible, practical training in suitable works for two years as a graduate apprentice.

He should note, however, that it is not always possible to arrange for this complete practical training entirely with one firm, and it may be necessary to spend shorter periods with firms providing facilities for training in a particular branch or branches of manufacture.

This refers particularly to the heavy side of electrical engineering, i.e. power plant, control apparatus and transmission equipment, where the range of associated plant and apparatus is wide, and where sound training in the construction, design and testing of each is essential.

Training in a Power Station for a year is a most useful preparation for similar employment in India, but is not, of course, to be considered as a substitute for manufacturing works training.

The vacancies for training offered by firms in this country for Indian students are generally restricted to students who have graduated in the United Kingdom, and students without such degree or qualifying course in this country have therefore little chance of securing this practical training. Those who have obtained an Indian Engineering degree or qualification and who wish to come to this country for practical training are therefore warned that it may be impossible to secure the desired facilities for them, as they would not be considered qualified for the graduate apprenticeship training and would be too old for the five-year apprenticeship course. Further, such students should note that in Electrical Engineering it is not the practice to accept partially trained students as "improvers" on a wage, and although some firms grant pay to graduate apprentices, this is not the invariable practice in the profession. Usually no premium is charged.

It may, however, be pointed out that some of the larger electrical engineering firms with branches in India are prepared to accept a limited number of apprentices selected in India on the recommendation of their managers or agents in India. Students in India who wish to be considered for these facilities should apply through the Company's agent in India, and should on no account leave India until they have been assured that a definite vacancy has been allotted to them.

It is also to be noted that students sometimes apply for training in both Mechanical and Electrical Engineering. It should therefore be clearly understood that though Mechanical Engineering necessarily forms a part of the general training in Electrical Engineering, it is practically impossible to qualify in both branches simultaneously.

*Electro-Communications (Radio Engineering, Telegraphy and Telephony, &c.)*—Students who desire to specialise in this branch should note that they should first obtain the usual training of an electrical engineer, viz. a University degree (which should include the subject of Electro-Communications) followed by the appropriate practical training. If desired they may also attend the postgraduate work in this branch of Electrical Engineering at the City and Guilds Engineering College (see pages 83-85).

Attention may be drawn to the fact that this is quite a separate training from that required for wireless operators, for which good facilities can be obtained at the British School of Telegraphy, Ltd., London. Courses are also available at the Northampton Polytechnic (see page 120).

*Hydro-Electric Engineering.*—For this branch students should pursue the usual course of training for Electrical Engineering, viz. a University degree followed by practical training.

This practical training should be the ordinary two years apprenticeship with special reference to the construction of hydro-electric generating plant, but should be supplemented by short periods afterwards at hydro-electric stations.

Owing to the absence of bulk water power supply in this country, these facilities have to be sought in the hydro-electric stations in Scandinavia and on the Continent, but are difficult to obtain. Facilities for practical training in works manufacturing hydro-electric plant are sometimes available with suitable firms in Sweden and on the Continent.

A postgraduate course in Hydro-Electric Engineering is also given at the City and Guilds (Engineering) College, London.

### **Mining Engineering and Metallurgy.**

The student of *mining engineering* would do well to arrange for at least a year of practical mining experience in India before coming to the United Kingdom for his training, as he would thus have had experience of and be prepared for the hard work of his practical course. The course for coal mining (which includes the study of electricity) usually lasts four years, and consists of a "sandwich" course, combining theoretical and practical training. Courses are available at the Universities of Birmingham, Durham (Armstrong College, Newcastle), Edinburgh, Glasgow, Leeds, London (Royal School of Mines), Manchester (College of Technology), Sheffield, and Wales, and at University College, Nottingham, and the Wigan and District Mining and Technical College.\* For metalliferous mining among the best courses are those leading to the Associateship of the Royal School of Mines, London, or to the diploma of the Camborne School of Mines, Cornwall (annual fee £42). A student who has thus taken his degree or diploma in mining is then qualified for an appointment in the United Kingdom or elsewhere as a geological surveyor or assayer.

The Board for Mining Examinations (Mines Department, Millbank, London, S.W. 1) hold examinations for Certificates of Competency as Managers and Under Managers of Mines twice a year at the following centres:—Edinburgh, Newcastle, Sheffield, Wigan, Cardiff and Birmingham. An applicant for a Managers' Certificate (First-Class Certificate of Competency) must be at least 23 years of age and an applicant for an Under Manager's Certificate (Second-Class Certificate of Competency) must be at least 21 years of age. Every candidate must furnish to the Board (i) testimonials of his sobriety and general good conduct, (ii) a certificate of proficiency in First Aid, and (iii) a Fireman's Certificate. He must have had practical experience in mining at the working face and other parts of the underground workings for a period of not less than five years (or not less than

\* 3 years' Diploma course (Fee £31 10s. per annum).

three years if he holds an "approved" Degree or Diploma); such experience must have been obtained for a period of at least two years (or at least one year and six calendar months if the applicant holds an "approved" Degree or Diploma) in the performance or responsible control of stonework, timbering, repairing, and of either the getting of minerals (by hand or machinery) or any work directly connected with such getting at the face of the mine. This practical experience must have been obtained in Great Britain in mines under the Coal Mines Act, 1911, or partly therein and partly elsewhere in such coal mines as may, in the judgment of the Examining Board, have provided equivalent experience.

A new rule recently made by the Board requires that future applicants who were under 17 years of age on the 21st June 1935 will not be admitted to the Examination for Managers or Under Managers' certificates unless they have first satisfied the Mining Examiners that their general education, i.e. knowledge in certain basic subjects such as English, Mathematics, Drawing and Science, has reached a standard prescribed by the Board's rules. The School Certificate of the Cambridge Local Examinations Syndicate is accepted as satisfactory evidence, but a boy who has been educated outside Great Britain and who holds some other certificate covering the four subjects of at least equal standing, can submit full particulars for the consideration of the Board.

Full particulars and the requisite form of application may be obtained from the Secretary to the Board.

The Board for Mining Examinations does not recognise, except in special circumstances, previous mining experience obtained in India, and in order that the Board may be in a position to decide whether any allowance can be made in individual cases, the nature of the work must be described in detail, must be certified by a colliery manager or by some other responsible person, and must be accompanied by information as to the approximate size and output of the colliery, the depth of the seam below the surface, the thickness of the seam worked, and the gaseous or non-gaseous nature of the coal. The Board is not prepared, however, to give any preliminary decision as to whether or no items of experience obtained in India or elsewhere will be accepted as counting towards the qualifying period; a candidate for admission to the examination must wait until he considers that he has satisfied the Board's requirements, and then submit his application for their decision as early as possible before the date of the examination.

For the study of *metallurgy*, courses are available at the Royal School of Mines and at the Universities of Birmingham, Durham, Leeds, Manchester, and Sheffield. These courses extend over a period of three or four years, the first portion

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\* The Diploma of Associateship in Mining Engineering granted by the Indian School of Mines, Dhanbad, is an "approved" Diploma.

being the same as that for mining, whilst the concluding portion is devoted to practical work in laboratories and furnaces together with a course of Physical Chemistry, and such special training as the assaying of the ores of ferrous and non-ferrous metals, fuel technology and chemistry of gases, and the technology of refractory materials. A mere knowledge of Physical Chemistry, with time spent at ore-smelting furnaces in dealing with chemical analysis of iron and steel from output of furnace charges, does not provide sufficient training for a metallurgist and is not likely to lead to satisfactory employment. The four-year degree course of the University of London, given at the Royal School of Mines, is arranged so that specialised training is given in Metallurgy (Ferrous and Non-Ferrous), Metallography and Pyrometry, Assaying and Metallurgical Analysis, Electro-Metallurgy, Mechanical Working and Testing of Metals and Alloys, Furnace Drawing and Design, Fuel and Thermo-Metallurgy, Refractory Materials and the Dressing of Minerals. The University of Sheffield concentrates on iron and steel, and provides three-year courses leading to a degree or diploma in Metallurgy.

### Engineering Courses.

The principal Universities and Colleges of Great Britain have excellent engineering laboratories, and provide courses for the engineering profession in all its branches. For details of fees, &c., see Section II., under the name of University concerned. For London Polytechnics see pages 119-124.

#### FARADAY HOUSE ELECTRICAL ENGINEERING COLLEGE.

Faraday House Engineering College provides students with a thorough training, theoretical and practical, in Electrical Engineering. The full course occupies four years, the first and third being spent at Faraday House, the second in a Mechanical Engineering Works and the fourth at the works of an Electrical Manufacturer or at a power station.

It is necessary to pass the entrance examination before joining, but students who have passed the Matriculation Examination of an Indian University are exempted.

The fees for the full Diploma Course of four years amount to 350 guineas (£367 10s.), payable as follows:—

First year	-	-	-	-	£105.
Second year	-	-	-	-	£105.
Third and fourth years	-	-	-	-	£78 15s. per annum.

There are no extra tuition fees, nor any payments to be made by the parent to the manufacturing firms to whom a student is sent during the second and fourth years. Students who have already had some training may undergo a shortened course specially modified to suit their circumstances, by arrangement with the Principal. The fees in any case are at the rate of 100 guineas per annum for the first two years.

Students may commence the four years' course in January, April or September.

*For further information application should be made either through the University Bureau or the Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, W.C. 2, or direct to the Applications Department, Faraday House, 62-70, Southampton Row, London, W.C. 1.*

#### CRYSTAL PALACE SCHOOL OF PRACTICAL ENGINEERING.

This School provides students of Mechanical or Civil Engineering with thorough instruction in the rudiments of the profession, and in the manipulation of materials.

Candidates for admission are required to pass a preliminary examination.

*Mechanical and Electrical Course.*—This Course is comprised in one year, and is intended either for the student who intends to become a Mechanical or Electrical Engineer, or to follow the Civil Engineering or any other branch of the profession.

*Civil Engineering Course.*—The instruction is a continuation of the Mechanical Course, but it can be attended separately. A student who has not passed through the Mechanical Course is required to pass an examination in Algebra and Plane Trigonometry, and to produce evidence to satisfy the Principal as to his proficiency in Mechanical Drawing. Failing this, he must pass one term in the Drawing Office of the Mechanical Section before he can enter the Civil Engineering Course.

The year is divided into three terms, of 15 weeks each.

The fee for the Mechanical Course (one year) is £54, for the Civil Course £75, and for a two-year course £120, if paid in advance. Special concessions can be arranged for Indian students.

*Further information will be supplied on application to the Principal, the Crystal Palace School of Practical Engineering, London, S.E. 19, either direct or through the University Bureau or Local Advisory Committee in India and the High Commissioner for India (Education Department), London.*

#### LOUGHBOROUGH COLLEGE, LEICESTERSHIRE.

This College provides courses in Civil, Mechanical, Electrical, Automobile and Aeronautical Engineering, Pure and Applied Science (Chemical Technology), Commerce and Industrial Administration. In the Engineering Departments the course covers full-time instruction during a period of five years—2½ years spent in the Productive Engineering Workshops of the College and 2½ years in the College Lecture Rooms and Laboratories. Students attend alternate weeks in the works and in the Laboratories. The Course of Training in Pure and Applied Science (Chemical Technology), and Commerce and Industrial Administration, covers a period of three years. The

College awards a Diploma on the satisfactory completion of appropriate courses, and after passing the necessary examinations. The courses of training are recognised by the professional Institutions. The College also provides facilities for students who wish to prepare for the External Degree of Engineering of the University of London. Fees in the Faculty of Engineering are £75 per annum and £30 per annum for Pure and Applied Science (Chemical Technology) and Commerce and Industrial Administration. The College is residential. Board residence accommodation charges vary from £30 to £35 per term.

### Professional Engineering Qualifications.

#### THE INSTITUTION OF CIVIL ENGINEERS.

A candidate who desires to be elected a Corporate Member (i.e. an Associate Member or Member) of The Institution of Civil Engineers is required to pass the Preliminary and Associate Membership Examinations (except in so far as he may be exempted by a recognised equivalent examination) and to satisfy the requirements of The Institution, having obtained the recognised practical training and experience.

Candidates between the ages of 18 and 25 are eligible under certain conditions for admission as Students of The Institution subject to passing the Preliminary Examination (unless they be exempt by a recognised equivalent examination) and such Students can in due course in accordance with the Regulations take the Associate Membership Examination or part thereof, and after completing their practical engineering qualifications qualify for corporate membership. Other candidates who must be over the age of 25 years may, subject to satisfying the requirements of the Institution as to their practical qualifications and passing the Preliminary and Associate membership Examinations (except in so far as they may be exempted by a recognised equivalent examination) be elected as Corporate Members.

*Studentship.*—Every candidate for admission as a Student must be between 18 and 25 years of age, and must be recommended by a Corporate Member under whom he is, or has been, in course of preparation and training for following the profession of a Civil Engineer.

The Council accept one of the following conditions as qualifying a Corporate Member to make a recommendation for the admission of a Student:—

- Either (1) where a pupilage or apprenticeship is being, or has been, served under a corporate member for a period of at least three years the pupil or apprentice may be proposed by that member as a Student at any time after the commencement of such pupilage or apprenticeship; or
- (2) where a course of training in an Engineering College approved by the Council is being, or has been, pursued for a period of at least two years under a teacher who is a Corporate Member, the Corporate Member may propose the candidate for admission as



a Student at any time after the commencement of such training, provided the candidate so proposed affords satisfactory evidence that he either has completed, or intends to complete, at least three years' practical training as a Pupil or Apprentice to a Civil Engineer;

- (3) where a regular course of study of at least three years' duration recognised by the Council as leading to a degree exempting from Sections A and B of the Associate Membership Examination is being, or has been, pursued in an Engineering College or University under a teacher who is a Corporate Member, and the candidate has obtained, or has the intention of obtaining, the degree, and also produces satisfactory evidence that he either has completed or intends to complete at least two years' practical training as a pupil, or an apprentice, or as an assistant under agreement to a Civil Engineer, either the teacher or the Civil Engineer (being a Corporate Member) may propose the candidate for Studentship at any time after the commencement of the course of study or the practical training, as the case may be

The Candidate must further pass the Preliminary Examination held by the Institution; or furnish a certificate to show that he has passed one of the recognised qualifying examinations.

*Preliminary Examination.*—This is open, subject to the approval of the Council of the Institution, to (a) a candidate for Studentship duly recommended for admission by a Corporate Member under whom he is being, or has been, trained or (b) a candidate for election to Corporate Membership (not being, or having been, a Student of the Institution) who has lodged a duly completed proposal and has been formally notified by the Council that his candidature is approved subject to his passing the examinations. The examination is held in April and October.

The subjects of the Preliminary Examination are as follows:—

- (a) English, comprising History, Literature and General Geography; Mathematics, comprising Arithmetic, Algebra, Geometry, and Plane Trigonometry.
- (b) One of the following languages:—Latin, Greek, French, German, Italian, Spanish, Dutch, Afrikaans, Portuguese, Hindustani, Russian, Burmese, Chinese, Japanese.
- (c) One of the following Science subjects.—Elementary Mechanics of solids and fluids; Elementary Physics, including Heat, Light, Electricity and Magnetism; Elementary Chemistry, including the principal properties of matter, the laws of chemical affinity, atomic weights, valency, and the chemistry of the principal inorganic elements.

*Exemption.*—Exemption from the Preliminary Examination may be granted on the following qualifications (among others):—(a) A degree of any University in the British Empire; (b) in the case of a candidate for Studentship who is pursuing, or has pursued, for at least two years a university course of study in

engineering leading to a degree recognised by The Institution as exempting from Sections A and B of its Associate Membership Examination—the Matriculation Examination prescribed by the University for such course (including one of the foreign languages enumerated in the Institution Syllabus), provided the candidate shall have passed the Sessional Examination at the end of the first year of the course or the Intermediate Examination if there is one; (c) the Matriculation Examination of various specified Universities, provided that the subjects laid down in the Regulations of the Institution (generally More Advanced Mathematics, one of the foreign languages enumerated in the Institution Syllabus, and one of the subjects, Mechanics, Chemistry and Physics) be included; (d) under certain conditions, School Certificates of the Oxford and Cambridge Local Examinations Syndicates.

*Fees.*—For a first entry, £2; for any subsequent entry, £1 10s.

*Associate Membership Examination.*—This consists of three sections, viz. (A), (B) and (C) as follows:—

(A) Mechanics, Strength and Elasticity of Materials, Electricity and Magnetism, and either Theory of Structures or Theory of Machines.

(B) (1) Engineering Drawing; (2) and (3) Two of the following nine subjects, but not more than one from any group—

Group I.—Geodesy, Stability and Resistance of Ships, Applications of Electricity.

Group II.—Hydraulics, Thermo- and Electro-Chemistry, Metallurgy.

Group III.—Geology and Mineralogy, Applied Chemistry, Theory of Heat-Engines.

(C) Either (I) Engineering Drawings, Specifications and Quantities, or (II) a Report or Thesis and oral examination thereon in London.

An application to attend the whole or a part of this Examination will be received only from either:—

(a) A Student of The Institution who is not less than 21 nor more than 26 years of age on the last day for entry, who at that date has been a student of The Institution for at least one year and who has completed, or made definite and satisfactory arrangements for, practical training under agreement in accordance with the by-laws, may, in the discretion of the Council, enter for Sections A and B of the Examination. For entry for Section C (I or II) a Student must have in addition (1) completed at least three years' practical engineering training under agreement and one year's subsequent engin-

engineering experience, and served, during the four years, or subsequently, at least one year in the aggregate in an engineer's office; or (2) pursued a regular course of study for two years in an Engineering College approved by the Council, completed at least three years' practical engineering training under agreement, and served, during such practical training, or subsequently, at least one year in the aggregate in an engineer's office; or (3) completed in an Engineering College a regular course recognised by the Council as leading to a Degree exempting from Sections A and B of the Associate Membership Examination, obtained the Degree and completed two years' practical engineering training under agreement, and served, during such training, or subsequently, at least one year in the aggregate in an engineer's office.

In the cases of Students not permanently resident in the British Isles, this practical training must have been substantially completed before admission to the Associate Membership Examination is allowed.

- (b) A Candidate for election to Corporate Membership who, having attained the age of 25 years and having lodged a duly completed proposal, has been formally notified that his candidature has been approved by the Council, and who has passed the Preliminary Examination, or is entitled under the rules to exemption therefrom.

*Fees.*—For the whole examination taken at one sitting, £5; for the examination taken in parts, per section £2.

It is important to note that under the By-laws of the Institution no person can be proposed for election unless he has attained the age of 25 years and has completed his engineering training in accordance with the Institution's requirements (that is, has satisfied the required conditions of practical training and subsequent engineering experience). It should also be noted that every applicant approved by the Council for Associate Membership must pass both the Preliminary and the Associate Membership Examination (except in so far as he may be entitled to exemption therefrom by the possession of recognised qualifications).

The examinations may in the discretion of the Council be held in India, the Associate Membership in April and the Preliminary Examination in both April and October.

*Exemptions.*—The following degrees, if taken after three years' study and the regular examinations in the several Universities, in accordance with the regulations published in

the respective Calendars, are recognised as exempting from Sections (A) and (B) (including Engineering Drawing, unless otherwise stated) of the Associate Membership Examination:—

ABERDEEN	-	B.Sc. in Engineering (Honours or Ordinary degree).
BIRMINGHAM	-	B.Sc. in "Civil," "Mechanical," or "Electrical" Engineering (Honours or Ordinary degree). B.Sc. in "Metal Mining," or "Coal Mining" (Honours degree, obtained in or after 1924).
BRISTOL	-	B.Sc. in "Civil," "Mechanical" or "Electrical" Engineering (Honours or Ordinary degree).
CAMBRIDGE	-	B.A. (Honours) Mechanical Sciences Tripos, or Ordinary degree (B.A.) in Engineering, provided the graduate has passed the First, Second and Third Examinations in Engineering Studies
DUBLIN	-	B.A.I. (Honours or Ordinary degree).
DURHAM	-	B.Sc. in "Civil," "Mechanical," "Electrical" or "Marine" Engineering (Honours or Ordinary degree). B.Sc. in "Naval Architecture" (Honours or Ordinary degree). <i>Not including exemption from the subject "Engineering Drawing" (Section B).</i>
EDINBURGH	-	B.Sc. in Engineering (Honours or Ordinary degree).
GLASGOW	-	B.Sc. in "Civil," "Mechanical" or "Electrical" Engineering, or in "Naval Architecture" (Honours or Ordinary degree).
LEEDS	-	B.Sc. in "Civil," "Mechanical," or "Electrical" Engineering (Honours or Ordinary degree). B.Sc. in "Mining" (Honours degree, obtained in or after 1931); "Gas Engineering," or "Fuel and Metallurgy" (Honours degree, obtained in or after 1912).
LIVERPOOL	-	B.Eng. in "Civil," "Mechanical," "Marine," or "Electrical" Engineering, or in "Naval Architecture" (Honours or Ordinary degree). B.Eng. in "Metallurgy" (Honours or Ordinary degree, obtained in or after 1925).
LONDON	-	B.Sc. (Internal) in Engineering (Honours or Ordinary degree). B.Sc. (Internal) in Engineering (Mining) (Honours or Ordinary degree, obtained in or after 1926). B.Sc. (External) in Engineering (Honours degree, or Ordinary degree obtained in or after 1936; or Ordinary degree obtained prior to 1936, provided the Matriculation Examination has been passed under the prescribed conditions, page 277). B.Sc. (External) in Engineering (Mining) (Honours degree, obtained in or after 1935). B.E.
NATIONAL UNIVERSITY OF IRELAND.		
OXFORD	-	B.A. with Honours in Engineering Science Final Honours School. <i>Not including exemption from the subject "Engineering Drawing" (Section B).</i>
QUEEN'S UNIVERSITY (Belfast).		B.Sc. in "Mechanical" or "Electrical" Engineering. B.Sc. in "Civil" Engineering. <i>Not including exemption from the subject "Engineering Drawing" (Section B).</i>
ST. ANDREWS	-	B.Sc. in Engineering (Honours or Ordinary degree).

SHEFFIELD -	B.Eng. in "Civil," "Mechanical," or "Electrical" Engineering (Honours degree; or Ordinary degree, obtained in or after 1930; or Ordinary degree, obtained prior to 1930 with a First Class in the Final Examination). B.Eng. in Mining (Honours or Ordinary degree, obtained in or after 1922).
VICTORIA UNIVERSITY (Manchester).	B.Sc. in Engineering (Honours degree; or Ordinary degree obtained in or after 1920). B.Sc. Tech. (Higher Course degree; or Ordinary Course degree with a First Division pass in the Final Examination) in "Mechanical" or "Electrical" Engineering. B.Sc. Tech. (Higher Course degree; or Ordinary Course degree with a First Division pass in the Final Examination) in "Municipal" Engineering obtained in or after 1930).
WALES -	B.Sc. in "Civil," "Mechanical," or "Electrical" Engineering (Honours or Ordinary degree).

*Practical Qualifications.*—A candidate for Corporate Membership must satisfy one at least of the following groups of qualifications, lettered respectively A, B, C, D and E:—

- (A) (a) He shall have been regularly trained under agreement as a pupil or apprentice of a Civil Engineer for at least three years
- (b) He shall have had in addition two years' experience in the design or in the construction of such works as are comprised within the profession of a Civil Engineer.
- (c) One year at least of the foregoing period of five years shall have been spent in an engineer's office, and one year at least in or upon engineering works.
- (B) (a) He shall have been regularly trained under agreement as a pupil or apprentice of a Civil Engineer for at least three years.
- (b) He shall have had in addition one year's experience in the design or in the construction of such works as are comprised within the profession of a Civil Engineer.
- (c) One year at least of the foregoing period of four years shall have been spent in an engineer's office and one year at least in or upon engineering works.
- (d) He shall in addition have pursued a regular course of study for two years in an engineering college approved by the Council.
- (C) (a) He shall have followed in an engineering college a regular course recognised by the Council as leading to a degree exempting from Sections A and B of the Associate Membership Examination, and shall have obtained that degree.
- (b) He shall have had in addition at least two years' training as an articled pupil or apprentice or as an assistant under agreement to a Civil Engineer.
- (c) He shall have had, in addition—
  - (1) one year's experience in the design or in the construction of such works as are comprised within the profession of a Civil Engineer; or
  - (2) one year of postgraduate study in an engineering college recognised by the Council for such purpose.
- (d) One year at least of the total period of three years under (b) and (c) shall have been spent in an engineer's office, and one year at least in or upon engineering works.

- (D) (a) He shall have followed in an engineering college a regular course extending over at least three years and recognised by the Council as leading to a degree exempting from Sections A and B of the Associate Membership Examination, whether he has taken the degree or not.
- (b) He shall have had in addition at least four years' experience as an assistant under a Corporate Member.
- (c) One year at least of this period of four years shall have been spent in an engineer's office, and one year at least in or upon engineering works.
- (E) (a) He shall have had at least seven years' experience of a character satisfactory to the Council as an assistant to a Corporate Member, partly in the office and partly in or upon engineering works.

Provided that any teacher of engineering as aforesaid shall have had at least four years' practical experience in an engineer's office, or in or upon engineering works, in addition to the periods of practical experience alternatively specified hereinbefore in paragraphs A, B, C, D and E.

NOTES :—

1. With regard to the requirement (page 278) that a candidate for Studentship must show that he has completed or has made definite and satisfactory arrangements for his practical training, The Institution of Civil Engineers is prepared, in the case of an Indian candidate who has pursued a regular course of university study leading to an engineering degree recognised as exempting from Sections A and B of the Associate Membership Examination and has obtained that degree, to accept evidence of a definite arrangement in this country for one year's satisfactory practical engineering training under agreement in England, and a written assurance from the High Commissioner for India that the candidate will receive an additional year of practical training under agreement in India.

2. For the purpose of election to Corporate Membership it is not essential that pupilage or apprenticeship or training as an "assistant under agreement" should be under a corporate member of The Institution, or even under a single engineer, nor is it required by the Council that the agreement should be of a formal legal character. The essential point is that the candidate should be in a position to produce documentary evidence, at the proper time, of a definite arrangement whereby he has been afforded opportunity of obtaining practical knowledge of engineering design and construction of a reasonably varied character, both in the engineer's drawing and designing office, and in or upon actual constructional work, and has availed himself properly of such opportunity.

3. It is to be understood that the term "Civil Engineer" embraces all civilians who are engaged in the design or the construction of engineering works of the kind recited in the Royal Charter of The Institution.

*It should be observed that the above abstracts from the Regulations and Notes are not binding on The Institution, and are intended merely to give general guidance to students desirous of working for the qualifications. In every case, therefore, students who consider themselves *prima facie* eligible under the Regulations should make definite enquiries, either through the University Bureau or Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Secretary, Institution of Civil Engineers, Great George Street, S.W. 1. They should be careful to send full details of all their qualifications, both theoretical and practical, and to state their age.*

## INSTITUTION OF ELECTRICAL ENGINEERS.

Candidates for election into or transfer to the class of Associate Member (A.M.I.E.E.) are required to be proposed and supported by corporate members of the Institution on Form E (for election) or Form T (for transfer), and must satisfy the under-mentioned requirements in addition to possessing an educational qualification approved by the Council.

Candidates who do not possess an approved educational qualification must either pass Parts I and II of an examination conducted by the Institution or in approved cases submit a satisfactory thesis.

Candidates holding any of the following qualifications will be deemed to have satisfied the educational requirements for Associate Membership under Bye-Law 12 (a) (iv) and (b) (iv):—

(1) A Degree in Engineering Science of any University in the British Empire,\* approved by the Council for the purpose, provided that the candidate has passed in at least two distinct Electrical Engineering subjects, one of which must have been taken at the Final Examination for such degree.

(2) An Honours Degree in Science of any University in the British Empire,\* approved by the Council for the purpose, provided that in the Final Examination for such Degree the candidate has successfully taken "Physics" or "Electro-Chemistry" or "Electro-Metallurgy."

(3) A Diploma, Certificate or Associateship, granted by any University, or any College of a University, or approved University College, in the United Kingdom or Ireland, on the completion of a full-time day course in Electrical Engineering. Unless the candidate has passed an approved entrance examination which includes "English," he must, in addition, satisfy the Institution's requirements in this subject.

(4) Faraday House: Diploma in Electrical Engineering.

(5) Higher Grade National Diploma in Electrical Engineering, provided the candidate has satisfied the Institution's requirements in the subject of "English."

Only the following may enter for the examination:—

(a) Students or Associates of the Institution.

(b) Candidates who have lodged with the Secretary of the Institution a duly completed Proposal Form E or GS for election.

*Requirements for Associate Members.*—Every candidate for election or transfer to the class of Associate Members shall satisfy the Council *either*—

(a) That he—

(i) is at least 26 years of age; and

(ii) has been trained and has had responsible experience as an electrical engineer according to one of the alternative

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\* Indian Degrees are not recognised by the Institution.

typical groups of qualifications lettered respectively (A), (B), (C) and (D) in the Schedule set out below, provided that the periods of training and experience of a candidate for Associate Membership shall include in the required total of seven years at least two years' experience in a responsible position as an electrical engineer; and

(iii) is engaged in any branch of engineering at the time of his application; provided that temporary unemployment shall not be deemed a disqualification; and

(iv) has passed an examination or possesses an educational qualification approved by the Council.\*

#### SCHEDULE.

Alternative Qualifications.	Full Daytime College Course.	Short Apprenticeship or Workshop Course.	Full Apprenticeship or Workshop Course.	"Sandwich" Course.	Responsible Experience as an Electrical Engineer.	Total
(A)	3 years	2 years	—	—	2 years	7 years
(B)	3 years	—	—	—	4 years	7 years
(C)	—	—	5 years	—	2 years	7 years
(D)	—	—	—	4 years	3 years	7 years

or,

(b) that he

(i) is at least 30 years of age; and

(ii) has had at least five years' experience in a responsible position as an electrical engineer; and

(iii) is engaged in any branch of engineering at the time of his application, provided that temporary unemployment shall not be deemed a disqualification; and

(iv) (unless in special cases the Council decide otherwise) has passed an examination or possesses an educational qualification approved by the Council.

The subjects and order of the examination are as follows:—

PART I.—English; Applied Mechanics (including Strength of Materials); Heat, Light and Sound or Inorganic Chemistry; Electrical Technology.

PART II.—One paper from each of the two following groups:—

*Group I (Morning).*—Electricity Supply and Electrical Installations (1st paper); Electrical Communications (1st paper); Electrical Design and Manufacture (1st paper); Meters and Measuring Instruments (1st paper); Electric Traction; Application of Electricity to Mines; Electro-Chemistry and Electro-Metallurgy.

\* Indian Degrees are not recognised by the Institution.



*Group II (Afternoon).*—Electricity Supply and Electrical Installations (2nd paper); Electrical Communications (2nd paper); Electrical Design and Manufacture (2nd paper); Meters and Measuring Instruments (2nd paper); Engineering Organisation, Management, and Economics.

Candidates holding any of the following qualifications will be deemed to have satisfied Part I of the Graduateship Examination:—

(1) A pass subsequent to Matriculation, in a First Science or Intermediate examination, which includes "Mathematics," "Physics," and "Electricity" of any University in the British Empire,\* approved by the Council for the purpose

(2) Either of the qualifications (3) or (5) on page 283 but in Mechanical Engineering, provided the candidate has satisfied the Institution's requirements in the subject of "English."

(3) The Institution of Civil Engineers: Associate Membership Examination.

(4) The Institution of Mechanical Engineers: Associate Membership Examination.

(5) Assistant Engineers and Chief Inspectors of the British or Irish Post Office Engineering Department.

(6) Whitworth Scholarship or Prize.

(7) Ordinary Grade National Diploma in Electrical Engineering, provided the candidate has satisfied the Institution's requirements in the subject of "English."

(8) Ordinary Grade National Certificate in Electrical Engineering, provided the candidate has obtained "credits" in two electrical papers and has satisfied the Institution's requirements in the subject of "English."

Candidates holding any of the following qualifications will be deemed to have satisfied Part II of the Graduateship Examination:—

(1) City and Guilds of London Institute. A pass in the Final Grade in (a) Electrical Engineering Practice, or (b) Telegraphy, or (c) Telephony, or (d) Radio-communication, or (e) Electro-Metallurgy.

(2) Higher Grade National Certificate in Electrical Engineering, provided the candidate has obtained "credits" in two electrical papers.

*Students.*—Every candidate for election to the class of Student should satisfy the Council (a) either that he is or has been a student of Electrical Engineering at one of the Schools or Colleges recognised by the Institution; or (b) that he is or has been an engineer, daily apprentice or assistant under the supervision of a corporate member.

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\* Indian Degrees are not recognised by the Institution.

*Graduates.*—Every candidate for election or transfer to the class of Graduate shall be at least 21 years of age and shall have complied with the Graduateship examination regulations.

Examinations are held in various places in Great Britain and Ireland in May and November and are also held in India in November only, where arrangements can usually be made for candidates to sit in Bombay, Calcutta, Lahore and Madras.

Applications to enter for the examination must be made on the prescribed Entry Form, which must reach the Secretary not later than the 1st April for the May examination, and not later than the 1st October for the November examination.

In the case of candidates taking the examination abroad, the Entry Forms must reach the Secretary in London before the 1st September.

The examination fee is £2 2s. for each Part or £3 3s. if both Parts are taken at one sitting.

In the case of candidates who are Student Members at the time of the Examination and who have paid three or more annual subscriptions, the fee is £1 1s. for each Part or £1 11s. 6d. if both Parts are taken at one sitting.

Fees will not be returned. Any candidate who withdraws his application, or does not attend the Examination, or fails, will be required to pay the fee for a subsequent entry.

*Examination Papers.*—A pamphlet containing specimens of the papers set at previous examinations can be obtained from the Secretary, price 1s. per copy.

Fuller information can be obtained either through the University Bureau or Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Secretary, Institution of Electrical Engineers, Savoy Place, Victoria Embankment, London, W.C. 2.

## INSTITUTION OF MECHANICAL ENGINEERS.

Election to Associate Membership of the Institution of Mechanical Engineers is only open to candidates who are at least 25 years of age, have passed the Associate Membership Examination, or such other exempting examinations, have also produced satisfactory evidence that they have been regularly trained as Mechanical Engineers, and have had sufficient practical experience in Mechanical Engineering. Provided that a candidate who is not under 33 years of age and who has not passed one of the above-mentioned examinations, but has produced evidence to the satisfaction of the Council that he has received a good general and scientific education and has been employed for a sufficient period in a responsible position in engineering science or practice, may be required to pass such section or sections of the Associate Membership Examination, or in lieu thereof to submit such thesis as the Council shall determine.

The Associate Membership Examination may be taken (a) by Students of the Institution at the age of 20 years or over and by Graduates of the Institution; and (b) by candidates for Studentship or Graduateship over 20 and under 30 years of age and by candidates for Corporate Membership over 25 years of age whose proposals for election have been sent in to the Institution, and to whom the Council have granted permission to take the Examination.

(Approved candidates for Studentship over 20 years of age who elect to take the Associate Membership Examination in lieu of the Studentship Examination will be elected *Students* on passing Section A.)

The Examination consists of three Sections, A, B and C. The subjects are as follows:—

Section A:—

PART I:—

- (a) Applied Mathematics.
- (b) Physics and Chemistry.

PART II:—

*Either*—(a) English Essay and Fundamentals of Industrial Administration.

*Or*—(b) A Modern Language to be chosen from French, German, Italian, Russian and Spanish.

Section B:—

(a) Theory of Machines and Machine Design.

(b) Properties and Strength of Materials.

(c) One of:—

(1) Steam and the Steam-Engine.

(2) Internal-Combustion Engines.

(3) Hydraulics and Hydraulic Machinery.

(4) Electrotechnics and Mechanical Design of Electrical Machinery.

(5) Metallurgy.

Section C:—Workshop Organisation and Management.

Candidates are exempt from Section A in cases where they have already passed the Studentship Examination and the Modern Language Paper. Certificates recognised as exempting from the Studentship Examination exempt also from the "Physics and Chemistry" and Modern Language Papers in Section A where the Certificate covers equivalent subjects.

A *Student* shall be a person not under 16 years of age who desires to become a Mechanical Engineer, has passed the Studentship Examination (which consists of four papers, viz. General Knowledge, Elementary Mathematics, Elementary Mechanics, and either (i) Elementary Physics or (ii) Elementary Chemistry) prescribed by the Council's Examination Rules for the time being or such other exempting examinations as may from time to time be approved by the Council under such rules, and has satisfied the Council either that he is receiving regular training as a Mechanical Engineer, or

that he is receiving full-time instruction in an Engineering School or College and has received or intends to receive regular training as a Mechanical Engineer, but who has not yet satisfied the conditions of the By-law for Graduates. No person shall be elected a Student after the completion of his twenty-fifth year, or remain a Student after the completion of his twenty-eighth year.

A *Graduate* is one who, being between the ages of 21 and 30, has passed or been exempted from Sections A and B of the Associate Membership Examination and has satisfied the Council that he has received or is receiving such regular training as a Mechanical Engineer as would in due course fit him for employment as a Mechanical Engineer. Before transference to Associate Membership he would have to pass Section C of the Associate Membership Examination.

*Exemption.*—Among the examinations exempting from the *Studentship Examination* are the following:—Graduateship of any recognised University in the British Empire, Matriculation Examinations of various Universities in the United Kingdom.

Among the examinations exempting from *Sections A and B of the Associate Membership Examination* are the following:—Engineering Degrees of any University in Great Britain, Ireland, the British Dominions, except such Universities as may be specifically excluded by Resolution of the Council, Diplomas in Engineering of the City and Guilds (Engineering) College, London; University College, London; King's College, London; the Royal Technical College, Glasgow (provided an approved Matriculation Examination has been passed before beginning the course).

The Examinations are held twice annually in April and October in London and various places in the United Kingdom, and once annually in October in certain centres overseas.

*Fees:—*

Studentship Examination - - - 1½ guineas.

Associate Membership Examination:—

For the whole Examination or two

Sections - - - 3 "

One Section only - - - 1½ "

Fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Secretary, Institution of Mechanical Engineers, Storey's Gate, St. James's Park, London, S.W. 1.

## AVIATION AND AERONAUTICAL ENGINEERING.

*(It should be realised that the conditions of the award of the licences are subject always to alteration by the Air Ministry)*

### I.—Flying.

The qualifications for flying are licences "A" and "B" of the Air Ministry. Full regulations are contained in the Air Navigation Directions, 1932 (A.N.D. 11) as amended, published by the Air Ministry and obtainable from His Majesty's Stationery Office (price 9d.) (Applicants seeking copies are advised to inquire whether any amendments have been issued since the Directions were last printed.) The requirements for the licences are briefly as follows:—

#### "A" LICENCE.

The tests and examinations for a pilot's licence to fly flying machines other than public transport or aerial work flying machines shall be as follows —

(1) *Practical Tests*.—In each practical test the candidate must be alone in the flying machine.

(a) *Test for Altitude and Gliding Flight*.—A flight which shall finish with a glide; to carry out the glide the candidate must at a height of not less than 2,000 feet above the landing or alighting area either cut off or completely throttle down the engine or engines. The landing shall be made without restarting the engine or engines, or without reopening the throttles, and within 150 yards of a point fixed beforehand by the official examiners of the test.

(b) *Tests of Skill*.—A flight without landing around two posts (or buoys) situated 500 yards apart, making a series of five figure-of-eight turns, each turn reaching one of the two posts (or buoys). This flight shall be made at an altitude of not more than 600 feet above the ground (or water) without touching the ground (or water). The landing shall be effected by—

(i) finally shutting off the engine at latest when the aircraft touches the ground (or water);

(ii) finally stopping the flying machine within a distance of 50 yards from a point fixed by the candidate before starting.

(2) *Technical Examination* —(a) Knowledge of rules as to lights and signals, general rules for air traffic, and special rules for air traffic on and in the vicinity of aerodromes open to public use.

(b) A practical knowledge of international air legislation.

(c) A general knowledge of, in so far as they affect the responsibilities of a pilot, the Order, the Directions issued thereunder, and the Notices to Airmen issued by the Air Ministry.

Provided that, for the purpose of the grant of such licences—

(a) persons who are qualified as Royal Air Force Pilots may be exempted from the above practical tests ;

(b) a Royal Aero Club Certificate, if issued within a period of two years preceding the date of the application for the licence, may be accepted in lieu of the passing both of the above practical tests and of the above technical examination.

(3) An applicant for the issue of a licence will be required to produce satisfactory evidence that he has carried out not less than three hours' solo flying during the twelve months preceding the date of the application. The evidence normally required for this purpose will consist of the production of a Pilot's Log Book recording such flying, or of a certificate issued by a responsible authority or person approved for the purpose by the Secretary of State.

The candidate must also undergo a medical examination by his own doctor, who will be required to fill in Form C.A. 61 and forward it to the Air Ministry.

#### " B " LICENCE.

The tests and examinations for a pilot's licence to fly public transport or aerial work flying machines shall be as follows :—

(1) *Practical Tests.*—In each practical test, except as otherwise specified, the candidate must be alone in the flying machine.

(a) The same tests as are required under (1) (a) and (b) regarding private pilot's licence (" A " licence). Candidates already in possession of the latter licence, or of a Royal Aero Club Certificate issued within a period of two years preceding the date of the application for the " B " licence, are not, however, required to pass these tests again.

(b) A left-hand and right-hand spin.

(c) Two cross country or overseas flights of at least 200 miles each.

As regards one of these, the flight shall be made in the same aircraft within eight hours, shall include two obligatory landings (when the machine must come to rest at points, other than the point of departure, fixed beforehand

by the examiners) and shall terminate with a landing at the point of departure. During this flight a height of at least 6,500 feet above the point of departure shall be maintained for a total period of one hour.

As regards both flights, the candidate will at the time of departure be informed of his route and furnished with the appropriate map. The examiners will decide whether the route has been correctly followed.

(d) A cross country or oversea flight of at least 200 miles with an examiner on board and including three forced landings at points selected by the examiner.

(e) General flying for about half an hour with an examiner on board and including five landings.

(f) A night flight of at least thirty minutes made between two hours after sunset and two hours before sunrise at a height of at least 1,500 feet above the ground. The aircraft will be required to be equipped with landing lights (lamps or wing tip flares) of an approved type. This test must be carried out on a dark night, the working of the aerodrome and its surroundings being in normal operation during the flight.

(g) A flight in the course of which the candidate, under the supervision of a properly accredited examiner, must without exterior view maintain correctly during 30 minutes his line of flight and carry out ordinary manœuvres by the sole use of the instruments on board.

(h) A candidate who desires a licence permitting him to fly a type of flying machine equipped with two or more engines will be required to undergo a practical test of his ability to fly and manœuvre such a machine with each engine in turn completely throttled down.

(2) *Technical Examination.*—Theoretical knowledge must refer particularly to the types of flying machines which the candidate desires to be authorised to pilot as well as to the types of engines with which such flying machines are equipped.

(a) *Flying machines:* Theoretical knowledge of the laws of the resistance of the air, especially as concerns its effect on the main plane structure, tail units and airscrews; functions of the different parts of the flying machine and of their controls.

Assembling of flying machines and different parts.

Practical tests on rigging.

(b) *Engines:* General knowledge of internal combustion engines, and their various functions; valve gear, carburation, ignition, exhaust.

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\* For tests (d), (e) and (g) the flying machine will be provided by the Secretary of State.

Characteristics of aero engines and a general knowledge of their construction, adjustment and assembling.

Causes of the faulty running of engines. Fuel and oils. Description of the details of the aero engines used. Adjustments, lubrication, upkeep, disassembling and assembling of the principal parts; causes of breakdown. Use of throttle and other controls.

Practical tests in running repairs.

(c) Knowledge of instruments prescribed for flying machines.

(d) Knowledge of rules as to lights and signals, general rules for air traffic, and special rules for air traffic on and in the vicinity of aerodromes open to public use.

Practical knowledge of the special conditions of air traffic and of international air legislation.

A general knowledge of, in so far as they affect the responsibilities of a pilot, the Order, the Directions issued thereunder, and the Notices to Airmen issued by the Air Ministry.

(e) Map reading, measurement of distances, calculation of courses, compensation of compasses for deviation and method of determining drift, elementary meteorology.

Provided that for the purpose of the grant of such licences, persons who are qualified as Royal Air Force pilots may be exempted from all or any of the above tests and from the examination, except as regards the subjects of the examination specified in (d) and (e). Such exemption may be made conditional upon the satisfactory completion of a special flying test.

(3) An applicant for the issue of a licence will be required to produce proof that, during the preceding two years, he has carried out as pilot in sole charge of a flying machine at least 100 hours' flying and at least 30 landings.

An applicant must also pass a stringent medical examination by a Medical Board of the Air Ministry.

## SECOND-CLASS AIR NAVIGATOR'S LICENCE.

A candidate for a second-class licence to navigate aircraft will be required to produce proofs of competency in the practice and theory of the following subjects, viz. :—

(i) Form of the earth, (ii) Maps and Charts, (iii) Compasses, (iv) Flight by dead reckoning, (v) Navigation by radiogoniometry, (vi) International Legislation, (vii) Signalling, (viii) Meteorology.

He would also be required to produce proof of having had at least two years' air experience, during which at least 300 hours must have been spent in the air.



## II.—Ground Engineering Licences.

In order to qualify for the issue of a ground engineer's licence, a candidate—

- (a) must not be under 21 years of age ;
- (b) must have passed an examination held by the Secretary of State for Air or approved by him for the purpose ; and
- (c) must produce satisfactory proof of practical experience or knowledge in accordance with the paragraph below.—

(1) A candidate will be required to have had such practical experience as, in the opinion of the Secretary of State, will enable him to perform satisfactorily the duties for which the licence is required.

(2) For a licence in Category A and/or Category B an applicant will be required to have had practical experience on aircraft maintenance and/or construction.

(3) For a licence in Category C and/or Category D an applicant will be required to have had practical experience on aero-engine maintenance and/or construction.

Where a candidate's experience or knowledge is limited to any particular type or types of aircraft or engine, a licence may be granted in respect of such type or types only.

*Category "A".*—Inspection of aircraft before flight.

The general principles of the systematic maintenance and examination of aircraft before flight.

*Category "B".*—Inspection of aircraft after overhaul.

The general principles of the inspection of aircraft construction.

*Category "C".*—Inspection of aero-engines before flight.

The general principles of the inspection and testing of aero-engine installation and maintenance.

*Category "D".*—Inspection of aero-engines after overhaul.

The general principles of the inspection of aero-engines during construction and/or complete overhaul.

*Category "X".*—Other duties as specified in the licence which, under the Order, are required to be performed by a licensed ground engineer. Licences in this category are issued in respect of the following duties:—

(i) Adjustment, installation and compensation of compasses in aircraft.

(ii) Repair, overhaul and testing of aircraft electrical equipment.

(iii) Repair, overhaul, testing and calibration of aircraft and aero-engine instruments.

(iv) Repair, overhaul and testing of magnetos.

(v) Inspection, packing and maintenance of parachutes.

## WIRELESS OPERATOR'S LICENCE.

The conditions of the grant of licences to Wireless Operators on board British aircraft is based on the Syllabus of Examinations for the Postmaster-General's Certificate, and involves (a) Proficiency in the working and adjustment of apparatus, including D.F. apparatus; (b) for telegraphy, the sending and receiving of messages in plain language at 20 words a minute and code groups at 16 words a minute in the International Morse Code, and for telephony the sending and receiving of spoken messages by radio apparatus; (c) knowledge of the regulations applying to the exchange of Telegraphic or Telephonic Traffic. The fee is 10s. and application must be made to the Signals Department, Civil Aviation, Croydon Air Port, Croydon, Surrey.

## Training.

### PILOTS' LICENCES.

It will be noticed that one of the requirements of the "A" licence is that a candidate must carry out three hours' solo flying, but it is obvious before he can do so he must have a certain number of hours' tuition under dual control. The period required is usually about twelve hours. The charge for the training is based on the number of hours flown and varies between £3 to £5 per hour. Facilities might also be obtained at one of the Flying Clubs, which would involve the Club subscription of between 3 gns. to 5 gns. and flying charges between 30s. and 45s. an hour, but it should be realised that election to a Club would be subject to there being a vacancy.

It is, however, suggested that before a student commits himself to coming to this country for advanced flying study, he might well consider the advisability of first taking his "A" licence in India to ensure that he has sufficient aptitude for taking up a career as a pilot.

The cost of obtaining Licence "A" would probably average about £50-£60.

For "B" licence the cost is generally at the same rates as those for "A" licence, but in view of the fact that 100 solo hours are required the total is, of course, much greater, being between £300 and £500. Some knowledge of Air Navigation and of Elementary Meteorology is also required. The distinction between the "A" and "B" licences is that an "A" licence entitles the holder to fly as a private individual whereas a "B" licence qualifies him to fly as a commercial pilot. It should be noted that for the "B" licence a very stringent medical examination by the Medical Board of the Air Ministry, and a very high standard of fitness, is demanded. Applicants considering, therefore, taking up the profession of commercial pilot should make sure that they are physically fit to do so before they embark on the expenses involved.

No preliminary educational test is prescribed for either of these licences, but candidates from India should have a good knowledge of spoken English and a good standard of education (say, the Intermediate of an Indian University).

#### GROUND ENGINEER'S LICENCE.

It will be noted that candidates will be required to have had such practical experience as in the opinion of the Air Ministry will enable him to perform satisfactorily the duties for which the licence is required. This experience can in some cases be obtained at various training schools in this country. It is possible to obtain the required experience as an apprentice with a firm, but such facilities are not easy to obtain.

The duration of such training and experience cannot be laid down, as the period may vary according to the individual needs of each candidate; but only in very exceptional circumstances will a period of less than two years' continuous application be accepted as satisfactory.

A knowledge of spoken English and a good standard of general education is advised, and some Mechanical Engineering knowledge is useful.

#### Training Schools.

A list of Government assisted Flying Clubs and private commercial schools for flying with ground engineering, can be obtained from the High Commissioner for India, Education Department, India House, Aldwych, W.C. 2. Special mention may, however, be made of the following schools:—

#### THE COLLEGE OF AERONAUTICAL ENGINEERING, CHELSEA, LONDON.

This College provides a full Diploma Course covering various branches of Ground Engineering. The College Diploma is awarded to students who have satisfactorily completed a minimum of  $2\frac{3}{4}$  years' training, the first period being at the College at Chelsea and then at the College Aerodrome at Brooklands, and thereafter a period of final training in one or more of the firms co-operating with the College. Candidates competing for the Diploma Course should qualify for the Air Ministry Ground Engineering Licences "A" and "C," and those desiring to take Licences "B" and "D" may obtain the necessary experience by an additional period spent in the co-operating companies. A probationary term is required.

The fees are £26 5s. for each of the 11 terms, including the Probationary Term; or a compounded fee of £239 8s. pre-payable in one sum for the ten terms following the Probationary Term.

## AIR SERVICE TRAINING, LTD., HAMBLE.

This School provides full training in various branches of flying and ground engineering, among the courses available being the following:—

	£
(a) Full course, including Flying and Ground Engineering Licences, Flying Certificates, Second-class Navigators' Certificates and Air Ministry W.T. Air Operators' Certificate. Course last three to three and a half years and the cost, excluding Air Ministry fees for licences amounting to approximately £20, is - - -	850
(b) Course for "A" and "B" Pilot's Licence, excluding Air Ministry examination fees of 13 guineas -	437
(c) For beginners for "A" Pilot's Licence from £60 onwards	
(d) Course for Ground Engineering Licences "A," "C" and "X," covering two years -	200
(e) Second-class Air Navigator's Certificate Course -	50
(f) Wireless Course for W.T. Air Operator's Certificate	55

Applicants should normally have a good general education equivalent to approximately the standard of an Indian Intermediate, and should preferably have some mechanical aptitude. A probationary period may be required.

## DE HAVILLAND AIRCRAFT CO., LTD., TECHNICAL SCHOOL.

This school provides the following courses:—

	£	s.	d.
For Flying Licence "A" the fees are estimated approximately - - -	48	0	0
For Licence "B" - - - - -	265	0	0
Ground Engineering Course for Licences "A," "B," "C" and "D":—			
Two-year course for students aged 19 years or over, with some previous engineering experience - - -	210	0	0
Three-year course for students aged 18 years or over - - - - -	262	10	0

Fuller information regarding these schools can be obtained either direct from the Principal, The College of Aeronautical Engineering, Chelsea, London, S.W. 3; The Commandant, Air Service Training, Ltd., Hamble, Southampton; or The Principal, The De Havilland Aeronautical Technical School, Hatfield Aerodrome, Hatfield, Hertfordshire; the University Bureau or the Local Advisory Committee in India or the High Commissioner for India (Education Department), London.

## III.—Aeronautical Engineering.

Aeronautical Engineering is a branch of Mechanical Engineering, and a student should normally take a Degree

in Mechanical Engineering, with a special bias to automobile and aeronautical engines. This follows the usual University degree course, requiring Matriculation and three years (or possibly two if exemption from the first year can be granted on Indian qualifications). This may be followed by a period of practical training in aeronautical engine works, but owing to the small number of firms manufacturing aeroplane engines it is not always easy to obtain the necessary facilities.

There is also a postgraduate course of Aeronautics at the Royal College of Science, London, lasting one year. Applicants must hold a recognised Degree in Physics or one of the branches of Engineering, preferably Mechanical, including a fairly high standard in Mathematics. The fee is £62 10s.

### THE ROYAL AERONAUTICAL SOCIETY.

"The Royal Aeronautical Society," with which is incorporated "The Institution of Aeronautical Engineers," is the leading scientific and engineering body dealing with aviation, and membership of this body in a technical grade calls for a high degree of technical ability, and confers upon its members a status which is universally recognised. Its Associate Fellowship and Associate Membership grades have recently been officially recognised as being qualifications for a post in the industry. The lowest technical grade is that of *student*. Those between 18 and 26 years of age who have the object or intention of becoming engaged in the development of the science of aeronautics, or the design or construction of aircraft or any of its components, or of becoming a pilot, engineer or navigator of aircraft, or teacher of aeronautics, may apply for this grade.

*Associates* are generally those who are ground engineers or inspectors and examiners of materials, or hold a pilot's B licence or a navigator's certificate, or commissioned or warrant rank in the Royal Air Force, or a post equivalent to that of foreman for a period of not less than three years in an aeronautical works.

*Associate Fellows* are those who are at least 25 years of age, and who are actually engaged in the theoretical or practical side of aeronautics. They must either have passed the Associate Fellowship examination or have an equivalent degree. The Associate Fellowship examination is in two parts Part I, English Essay and Elementary Mathematics. Part II, Compulsory paper on Pure or Applied Mathematics and two subjects from the following groups, of which not more than one may be taken from Group II:—

#### Group I.

- (a) Strength of Aeronautical Materials and Structures.
- (b) Aerodynamics.
- (c) Theory of Internal Combustion Engines
- (d) Theory of Machines.

*Group II.*

- (a) Design (Aircraft).
- (b) Design (Aero Engines).
- (c) Air Transport.
- (d) Aircraft Materials.
- (e) Aircraft Instruments—Theory and Design.
- (f) Wireless Telegraphy and Telephony and their applications to Aeronautics.
- (g) Meteorology and its application to Aeronautics.
- (h) Navigation and its application to Aeronautics.
- (i) Air Survey and Aerial Photography.

The following will exempt a candidate from Part I:—

Having passed matriculation at any University in the United Kingdom or any other examination at the discretion of the Council. From Part II a candidate will be exempted who holds an honours degree in Engineering, Mathematics, Physics, Chemistry or Metallurgy of any University of the United Kingdom, provided the candidate can show he has applied his knowledge to Aeronautics. Any other degree or diploma of any other University or educational establishment may be accepted at the discretion of the Council.

A candidate over 33 years of age, who has had at least 10 years' aeronautical experience, may submit a thesis in lieu of the examinations.

*Associate Members* are similar to Associate Fellows, except that the examination they have to pass is one of a more practical nature. They must be at least 25 years of age, and actually engaged, at the time of their application for election, in the design or construction of aircraft or any accessories thereto, and must satisfy the Council that they possess practical knowledge and experience of some branch of aeronautical engineering.

The highest classes in the Royal Aeronautical Society are those of *Fellow* and *Member*. They must be at least 28 years of age, be in a responsible position in the design or execution of important aeronautical work of any kind, and have had at least five years in such positions of responsibility, and hold, furthermore, the qualifications of Associate Fellowship or Associate Membership or their equivalent.

For those who are interested in aeronautics generally there is a special class known as *Companions*, for which no qualifications whatever are required.

The subscriptions are:—

Four guineas a year for Fellows and Members.

Three guineas a year for Associate Fellows and Associate Members.

Two guineas a year for Associates and Companions.

One guinea a year for Students.

The Society publishes a technical Journal monthly, which is sent to every member. It has a number of branches throughout the world, so that members can keep in constant touch with the progress of aeronautics, and possesses not only a large aeronautical library, but also an information bureau which is available to all the members.

GENERAL NOTE.—*The above general particulars should be verified in each case and fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Secretary to the Royal Aeronautical Society, 7, Albemarle Street, Piccadilly, London, W. 1.*

## TECHNOLOGY.

The basis of nearly all technological education is Chemistry, and an Indian technical student must have a knowledge of this subject to be in a position to begin his technological training with advantage. The chief subjects of study are Mathematics, Physics, Chemistry (including a large amount of Organic Chemistry) and Drawing; as much as possible of all these subjects, both pure and applied, should be learned before coming to this country.

At the various Colleges, Schools and Polytechnics in the United Kingdom where technology is taught, there are excellent and extensive laboratories for both undergraduate and research work, whilst there are also in this country up-to-date and scientifically-planned factories worked under such conditions that the student receiving training may readily acquire the knowledge and experience necessary to enable him to conduct similar manufacturing operations in India. It is, however, important for all students of technology to realise that it is at present difficult to obtain practical training in suitable works or factories, especially in cases where secret processes are involved and in branches of industry where competition is very keen.

Amongst the chief industries which may be profitably studied by Indian students in this country are glass, leather, oils and fats, paper, pottery, soap, sugar and textiles (including dyeing). Separate information is given below regarding each of these industries, but it may generally be assumed that, for students with little or no preliminary qualifications, the technological course is not likely to be of less than five years' duration. The time to be spent at college will depend a good deal on the character and the extent of the student's previous education, particularly in Organic Chemistry (pure and applied) and Physical Chemistry; and also on what previous knowledge he possesses of the nature and manufacturing methods of the industry in which he wishes to train. In most branches of technology, moreover, an additional two years' research work is considered essential—one year in the college laboratories and one year in the factory laboratory of the works where the practical training is being taken. The practical training in some of these industries, particularly pottery, glass and paper, should, however, be carefully selected, with special regard to the section or branch of the subject which is likely to be most useful in India.

Industries involving the use of carbohydrates and of animal and vegetable oils are of great importance. A knowledge of the technology of carbohydrates is essential in relation to the preparation of foodstuffs, and in connection with fermentation processes, whilst oils and fats are not only employed in the manufacture of glycerine and of soap, but



are also used in the production of butter substitutes. As these industries naturally depend on the careful selection and handling of their basic raw material and of the mode of extraction, it is obvious that a good knowledge of Organic Chemistry is essential.

The posts usually available will be given to men who have been educated and trained as (a) research chemists, (b) engineer chemists, or (c) chemical engineers. Class (a) are chemists only engaged on research work; class (b) are chemists first, with some knowledge of engineering, sufficient for the planning and building of the factory to the best advantage, and in designing and erection of its working plant; class (c) are engineers first, fully qualified, but possessing an advanced knowledge of Physical Chemistry. In all these three classes an Indian degree in Chemistry is the best foundation for work in this country.

It is useful for all students of technology to have at least a working knowledge of French and German, especially the latter, in order to enable them to refer to standard works and scientific journals in these languages, dealing with the subject with which they are concerned. Students of technology and technological chemistry would also derive great benefit by joining such of the special scientific institutions as have been organised in connection with their branch of the profession.

### Special Industries.

Under the heads of the various industries below, a short statement is given of the technological course of education and practical training in this country which would be most useful

#### FISH CANNING.

A good general knowledge of the subjects of Botany and Marine Zoology are necessary. Students with these qualifications may get into touch with the College of Fisheries, University of Washington, Seattle, Washington, United States of America, or the Department of Oceanography, and the Department of Botany at the University of Liverpool, England.

#### FRUIT CANNING.

For this industry a student should already have a thorough groundwork in Chemistry and in Botany, with as far as possible special qualifications in Bio-chemistry and Microbiology, and after obtaining such qualifications arrangements could probably be made for training in the Campden Research Station, Campden, Gloucestershire, which is attached to the Department of Agriculture and Horticulture, University of Bristol, and specialises in the subject of fruit and vegetable canning.

Such a course might possibly be supplemented by a shorter period spent with a firm in this country in which work is conducted on a larger scale under commercial conditions.

## CHEMICAL TECHNOLOGY AND CHEMICAL ENGINEERING.

Post-graduate courses in Chemical Technology and Chemical Engineering are provided at the Imperial College of Science and Technology, South Kensington, and University College, London.

The Imperial College School of Chemical Technology specialises in Fuel Technology and High Pressure Gas Reactions, as well as in Electro-Chemistry and Chemical Engineering, and special facilities are now provided there for advanced study and research in (a) High Pressure Gas Reactions and Combustion, (b) Gaseous Combustion and Explosions, (c) The Chemistry of Coal and its By-products, (d) Silicate Technology, including Refractory Materials, (e) Electro-Chemistry and Electro-Thermics, and (f) Chemical Engineering.

The Diploma of the Imperial College (D.I.C.) is awarded to postgraduate students for the special excellence of their work over a period of not less than a year.

At University College, the Ramsay Laboratory of Chemical Engineering (opened in November 1931) provides special training in the principles which underlie the design and operation of chemical plant. The laboratory is well equipped for large-scale experimental work and also for chemical engineering research work. The main work of the laboratory will consist of the investigation of problems connected with the transference of processes from the laboratory to the industrial scale, and the design and arrangement of plant for the operation of such processes. The College has now instituted a postgraduate Diploma in Chemical Engineering, the course for which extends over one academic Session.

There are also Schools of Applied Chemistry at the University of Leeds (Tinctorial Chemistry, Leather Industries, Fuel and Metallurgy, including Refractories), Birmingham University (Brewing), Edinburgh University, the Manchester College of Technology (Metallurgy, Foodstuffs, Fuels, Electro-Chemistry, Textile Chemistry (including Paper Manufacture), Fermentation Processes), and the Royal Technical College, Glasgow.

Students intending to take up these courses should have the same qualifications as for Fuel Technology (*see below*).

## FUEL TECHNOLOGY.

This is a useful course for postgraduate students who have made Chemistry, Physics and Mathematics their principal studies, or have graduated in Metallurgy Engineering or Glass Manufacture. It provides a good knowledge of the relative uses and commercial values of the various fuels now in use, under the general terms of solid, liquid and gaseous fuels.

Such solid fuels are coal, peat and wood in various forms, the most modern application of coal being in its pulverised form and of peat in briquets.

Liquid fuels include such as crude petroleum, oil, spirit and alcohol.

Gaseous fuels include town gas, natural gas, producer gas, blast furnace gas and so forth.

The course also includes boiler and furnace design and management, as well as combustion control and fuel economy generally. Postgraduate courses in fuel technology, including lectures and laboratory work, are provided at the Imperial College of Science, London, and at the Universities of Sheffield, Manchester and Leeds (which specialises in Gas Engineering).

Students intending to take up the special study of Fuel Technology should preferably have attained a good B.Sc. standard in Chemistry (as principal subject) with Mathematics and Physics (as subsidiary subjects). It is also advisable that they should have a good grounding in Applied Mechanics.

#### GLASS.

This is a highly technical industry, requiring a sound knowledge of inorganic and physical Chemistry, the technology of fuels and heating processes, refractory materials and furnace processes, and of the principles of engineering. The industry is divided into several branches, all of which are separately worked, as bottle glass, optical glass, table ware (including cut, coloured and other decorated glass), common pressed glass, window glass, plate and mirror glass, electric light bulbs, chemical and heat resisting glass, light blown and scientific and surgical glass. Excellent degree and diploma courses are available in the Department of Glass Technology, University of Sheffield (*see* page 147). Practical training in firms is generally unobtainable.

Although the course of scientific training deals with the principles underlying all these branches it is an advantage to the student if he already know to which branch he proposes to attach himself after training. Experience shows that students do best who have already graduated at an approved University in India in subjects including Mathematics, Physics and Chemistry prior to entering their course in Glass Technology. No prior practical training at a glass works is essential.

#### LEATHER MANUFACTURE AND TANNING.

The University of Leeds provides a course in leather, leading to the B.Sc. or Diploma of the University, and advanced students can also work for the M.Sc. Students desiring to take the B.Sc. course should preferably have graduated in Science in India. For details of the fees, &c., *see* page 62.

The Leathersellers' Technical College, Tower Bridge Road, Bermondsey, London, S.E., deals with the manufacture of leather. The College contains practical workshops fully

equipped with the most up-to-date machinery, which enables students to carry out most processes in the manufacture of the chief varieties of leather under what are practically factory conditions. There are in addition a large chemical laboratory, bacteriological laboratory, tannery, dye house and finishing shops. The instruction is arranged to meet the requirements of individual students. The two-years' course required for the Leathersellers' Diploma is arranged for those students intending to take positions as managers or departmental heads. Students may supplement the Diploma Course by a year's study of either practical problems of an advanced nature, research work in Chemistry or Physics, or specialise in the particular branch of leather manufacture in which they are subsequently to be employed. Students following the award of the Diploma may carry out original research work or the investigation of practical problems of an advanced nature for the award of the Associateship of the College (A.L.C.). The fees are £70 per session, and may be paid in instalments of £30, £25, and £15 at the beginning of each term. A deposit fee of £4 is also charged to each student to cover breakages and damage to apparatus, &c. Students are also admitted by special permission for short periods of instruction, either in some special branch of the industry or with a view to bringing their knowledge up to date; in special circumstances students may be permitted to take lecture courses without attending practical classes. The session commences in September, and applications for admission can be made through the University Bureau or Local Advisory Committees in India and the High Commissioner for India (Education Department), London.

Facilities for supplementary technical training in leather manufacturing processes by works practice in England is sometimes granted to students of this College by leather manufacturing firms.

## OIL MILLING.

This industry concerns the extraction of oil from vegetable plants, fruit and seeds, and involves a good knowledge of organic chemistry for testing and selecting the various materials from which to extract the oil, with its treatment before and after milling. The uses of vegetable oils for industrial purposes are numerous, and nearly all involve special machinery and treatment, to be learnt from practical training at oil mills. Certain courses are available at the Battersea Polytechnic, London, and the Royal Technical College, Glasgow, and facilities for research in oils and fats are provided there; post-graduate courses in various problems connected with vegetable oils are also available at the University of Liverpool, but applicants for such courses must possess at least a good Degree in Chemistry. Practical experience with a firm is generally unobtainable.

Courses in mineral oils are available at the Imperial College of Science and Technology (Royal School of Mines), London, the University of Birmingham, and at the Royal Technical College, Glasgow.

#### PAINTS AND VARNISHES.

Certain theoretical courses are available at Technical Colleges in this country, but such training would probably not be sufficiently on the practical side. Facilities with firms in this country are exceedingly difficult to obtain, and when available generally require payment of a heavy premium.

#### PAPER.

Students who come to this country for training in the manufacture of paper should certainly have acquired some practical paper-mill experience before leaving India. As a general rule a three years' course is necessary, for which a good knowledge of Physical Chemistry and Organic Chemistry is needed, a certain amount of mechanical and electrical engineering, also some knowledge of French and German. The manufacture of pulp for paper-making is a more or less separate industry. The College of Technology, Manchester, and the Battersea Polytechnic, London, provide good general courses in paper-making, and certain facilities for practical experience are obtainable for suitably qualified students.

#### POTTERY.

A good knowledge of Chemistry, including Physical Chemistry, is needed for this industry, together with some Geology, Technology of Fuels, Pyrometry, Calorimetry and a knowledge of refractory materials. Pottery comprises a wide range of manufactures, and includes such crude articles as bricks and drain pipes as well as high-grade sanitary ware, earthenware, china, and the most highly decorated works of art. There is thus a high degree of specialisation, and the student before leaving India should definitely decide the exact branch in which he desires training and experience. Pottery of all types is manufactured in England, and there is a College of Technology at Stoke-on-Trent, where courses are provided and a diploma granted. The annual fee is £15 15s.

#### PRINTING.

Courses in Printing are provided at the following institutions:—

- (a) *The Heriot-Watt College, Edinburgh*, provides a full-time day course extending over two sessions qualifying for a certificate. The course is suitable for those intending to take managerial positions in Printing, and includes Compositors' Work, Letterpress Machine Work and Lithography. Fee £18 18s. per session, and matriculation 10s.

The College has a new building for the Printing Department and is equipped with the most modern plant in Composing, Linotype, Monotype and Inter-type machinery, Letterpress machinery with automatic feed and delivery, and Lithographic Offset Printing machines.

- (b) The Leeds College of Technology, Department of Printing, provides both theoretical and practical instruction in all branches of Printing and Allied Trades, including Colour Printing and Reproduction Processes (in connection with which workshop practice is available to suitable students). The College Diploma in Printing can be taken after two years; Printing may also be taken as a subject for the B.Com. degree of the University of Leeds, but such a course would not cover professional training in three years as fully as the two-year Diploma Course. The annual fees are—(i) General Courses extending over two years, £37 16s. per annum; (ii) Reproduction processes and other special courses extending over not less than a year, £47 5s. per annum.
- (c) The London School of Printing and Kindred Trades, Stamford Street, S.E. 1 (fee £15 a year), and in Photo-Engraving and Allied Processes at the School of Engraving and Lithography, 6, Bolt Court, Fleet Street, E.C. 4 (fee £15 a year). Students desiring admission to these Schools should apply about twelve months in advance.
- (d) The College of Technology, Manchester, provides, in addition to part-time courses, full-time day courses extending over two sessions in the three following subjects:—

*Printing.*—Letterpress; lithography and offset-lithography; photogravure; hand and mechanical composition; bookbinding.

*Photography.*—Commercial photography; portraiture; re-touching and finishing; reproduction processes.

*Photo-Mechanical Processes.*—Line relief process; half-tone blocks; three and four-colour block making; photo-lithography; photogravure.

On completion of a course a student qualifies for a certificate. Fee, 12 guineas per session.

#### SOAP AND CANDLE MAKING.

Both of these industries require a good knowledge of Chemistry, especially Organic Chemistry. Facilities for practical training in works are very difficult to obtain, but small manufacturers are sometimes willing to provide facilities on the payment of a premium.



has developed special laboratories for the physical and chemical studies of wool, including X-ray work. (The sessional fee is £56); also at the Bradford Technical College (sessional fee £18 18s.) and the Scottish Woollen Technical College, Galashiels. Fuller information regarding these institutions can be obtained either through the University Bureau or the Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Principals of these Institutions.

The training given at these institutions includes courses in textile chemistry and mechanical and electrical engineering, with special attention to the machinery involved in the manufacture of textiles.

For the study of *silk*, students should preferably have spent a short time at the spinning and weaving mills in Kashmir before leaving India, since the process of manufacture in this industry are numerous, the exact method depending definitely on the quality of raw silk used. Facilities for practical training in this country are, however, scarce, though a certain amount of training may be obtained at the University of Leeds and the Technical Colleges at Macclesfield and Derby. As a general rule, such courses are specially arranged after consultation with the head of the department, and they do not necessarily lead to a degree or diploma. As a great deal of silk is manufactured in France, students desiring practical training would be well advised to acquire a good knowledge of French.

In so far as Sericulture is concerned there are no facilities in Great Britain, but there are two establishments on the Continent, viz. Ecole Temporaire de Sériculture, Montpellier, France (no fees, but a deposit of 20 francs for expenses), and R. Stazione Bacologico, Padua, Italy (fees amounting to 760 lire). The courses are taken in the language of each country, but it is understood that the Directors are lenient in this respect in the case of foreign students.

A student coming to this country for training in textiles should have graduated in Science with Organic Chemistry as his special subject, plus a good knowledge of freehand and mechanical drawing, as well as a European language, either French or Italian or German. He will then probably have to spend two years on his College course, and a further two years of practical training in England or on the Continent.

#### WOOD DISTILLATION.

This industry involves a good knowledge of Organic and Physical Chemistry and of Chemical Engineering. The best countries for practical training are, for soft wood, Norway and Sweden, and for hard woods, France. There is very little wood distillation carried on in Great Britain because of the lack of suitable wood. A student should have had some training in wood distillation in the forests of India before coming to Europe.



It may be added that the Institut du Pin, Bordeaux, provides facilities in soft wood distillation (see about 150 francs per term), including laboratory and practical facilities

### Professional Qualifications.

#### INSTITUTE OF CHEMISTRY.

Before candidates for the Associateship (A.I.C.) can be registered as students or admitted to the examination they must have passed an approved examination in the following subjects: (a) English, (b) Elementary Mathematics, (c) at least one of the following languages: Greek, Latin, French, German, Italian, Russian, Spanish, Afrikaans, or other approved language; (d) if only one language be taken under (c) one of the following subjects: Botany, Chemistry, Geology, Higher Mathematics, Mechanics, Physics, Zoology, General Science, Geography, English History, must be taken.

Any examination admitting a student as a matriculated student of any University recognised by the Council (no Indian Universities are specifically included) is approved and certain other examinations, a full list of which can be obtained from the Institute

For registration as a student, a candidate must satisfy the Council (i) that he is a British subject and not less than 16 years of age; (ii) that he has passed an approved preliminary examination in the required subjects; (iii) that he is recommended by a teacher of chemistry in a recognised institute in which he is studying or by a Fellow under whom he is working; (iv) that he is pursuing an approved course of training.

*Associateship (a) By examination.*—A candidate must be over 21 years of age and must (a) have completed a four-year systematic day course (an equivalent evening course will be considered by the Council) in Chemistry, Organic, Inorganic and Physical, with Physics, Mathematics and one optional subject as subsidiary, or (b) have obtained a degree which has included Chemistry in the Final Examination and has either had a further year's study and practical work at a recognised institution or has had two subsequent years' experience under a Fellow of the Institute or in a laboratory or works approved by the Council.

Candidates may take the examination before reaching the age of 21 but will not be admitted as Associates until attaining that age

(Candidates of over 25 or 30 years of age may be considered by the Council on special conditions if, instead of the course above, they have been engaged in the study or practice of Chemistry for at least 8 or 12 years respectively)

The examination (which lasts six days) is in the subjects of (a) General Theoretical Chemistry; (b) Practical Chemistry, and candidates must be able to translate technical literature from French and German.

(b) *By exemption from examination.*—Candidates must have satisfied the above conditions with the difference that the degree required is one in the Honours School of Chemistry, with first or second class Honours or other examination approved by the Council as equivalent and is recommended by his Professor and, when necessary, from the Fellow or head of an approved laboratory. Applications on the strength of a degree of a Dominion University are considered individually.

*Fellowship (F.I.C.)*—Candidates must, except in special cases, be Associates and must be not less than 24 years old and have since their admission as Associates, been for three years therefrom continually engaged in the study and practice of chemistry in a manner satisfactory to the Council.

They are as a rule required to pass an examination in one of the following branches, (A) Inorganic Chemistry, (B) Physical Chemistry, (C) Organic Chemistry, (D) Bio Chemistry, (E) Chemistry of Foods, Drugs and Water, (F) Agricultural Chemistry, (G) Industrial Chemistry.

Except in the case of branch (E) candidates may take a portion of their examination in some selected field of work, subject to the approval of this by the Council.

The Council may exempt from the Examination for the Fellowship candidates who have carried out original research of sufficient merit or have invented processes or institutions of sufficient merit.

Annual subscriptions: Students, 10s.; Associates, £1 11s. 6d.; Fellows, £2 2s.

*Entrance fees* (additional to the subscription): Associateship, £2 2s.; Fellowship, £5 5s.

*Examination fees*: Associateship, £5 5s.

Fellowship for Associates, £5 5s.; for other candidates, £10 10s.

*Fuller information can be obtained either through the University Bureau; from Dr. G. J. Fowler, F.I.C., the honorary Secretary of the Institute's Indian Advisory Committee, Central Hotel, Bangalore, Mysore; the High Commissioner for India (Education Department), London, or direct from the Registrar of the Institute of Chemistry, 30, Russell Square, London, W.C. 1.*

#### INSTITUTE OF BREWING.

The Council of the Institute is of the opinion that those who wish to become practical brewers, and ultimately to rise to the higher positions, should receive a training equivalent to that

which is exacted from those who enter other organised professions, and that such students should endeavour to comply with the following, viz. :—

- (1) To attain a standard of general education at least equivalent to that of Matriculation.
- (2) To obtain the Certificate granted by the University of Birmingham, the Heriot-Watt College, Edinburgh, or the Sir John Cass Technical Institute, London; or, better still, the Diploma of Brewing and Malting granted by the University of Birmingham or the Heriot-Watt College, Edinburgh.

*N.B.—Neither the Diplomas nor the Certificates mentioned above will be granted until the student has had two years' practical training or pupillage in a brewery.*

- (3) To enter for the appropriate part of the Prescribed Examination of the Institute when they have fulfilled the necessary conditions.

The Prescribed Examination is divided into three parts, viz. Part I (a), Part I (b), and Part II.

Candidates for election to Associate Membership are required to pass Part I (a) and Part I (b), but certain equivalent examinations (*see below*) are accepted by the Committee in lieu thereof.

Part I (a) consists of questions in Chemistry (two Papers), and Physics; and Part I (b) of questions in Plant Biology as applied to Malting and Brewing, and Biochemistry as applied to Malting and Brewing.

Candidates need not, however, take both sections of Part I at one and the same examination.

Part I is intended to be a test of the candidates' knowledge of the general principles underlying the practice of malting and brewing, and without which full comprehension of the latter is impossible. All candidates for this examination must produce evidence from the headmaster of their school, or through examination, that they have attained a standard of general education approximately equivalent to that of Matriculation.

Candidates who have passed the final examination for a degree in science, or who have obtained either of the Diplomas mentioned in clause (2) above, are not required to pass Part I of the Prescribed Examination. Those who hold either of the Certificates mentioned and have had two years' training in a laboratory approved by the Council are also excused Part I. The Council will also exempt from Part I (either wholly or in part) such candidates of approved experience as have passed a satisfactory examination in science.

*Fee.*—The fee for each section of Part I is £2 2s., but if both sections are taken at one and the same examination the fee is £3 3s.

Part II, which is the qualifying examination for Diploma Membership, is open to Associate Members who have had six years' practical experience as brewers. It comprises:—*(a)* Malting; *(b)* Brewing, and Brewery and public-house cellar management; *(c)* Bottling; *(d)* Engineering, including fuel and power; *(e)* Scientific control, water, materials and by-products; *(f)* Cooperage; and *(g)* General knowledge.

The questions set are intended to test the candidate's professional competence, and are such as could reasonably be expected to be answered after six years' practical experience in a brewery.

*Fee.*—£3 3s.

The examinations are held in London, Edinburgh, Manchester and other convenient places, and also abroad when required.

Fuller information can be obtained either through the University Bureau or the Local Advisory Committee in India and the High Commissioner for India (Education Department), London, or direct from the Secretary, Institute of Brewing, Brewers' Hall, Addle Street, London, E.C. 2, from whom also copies of past examination papers can be obtained.

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SECTION V.

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AGRICULTURE, INCLUDING  
FORESTRY AND HORTICULTURE

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## AGRICULTURE.

A qualification may be obtained either by:

(1) securing the National Diploma in Agriculture, Dairying, Horticulture or Poultry Keeping of the respective National Examination Boards, the study for which can be pursued at many Universities or at an Agricultural Institution; or

(2) securing a Degree or Diploma at an Institution of University standing; or

(3) securing a Diploma at one of the Agricultural Colleges.

### 1.—THE NATIONAL DIPLOMAS IN AGRICULTURE AND DAIRYING.

In order to be eligible to sit for the National Agricultural Examination Board's Examination in Agriculture ("N.D.A.") a candidate must--

(a) present a certificate from a recognised agricultural college that his attainments in the subjects of General Botany, Geology, General Chemistry, Physics and Mechanics, as attested by class and other examinations, are, in the opinion of the authorities of the College, such as to justify his admission to the Board's Examination; or

(b) produce evidence that he has passed the 1st B.Sc. or the Intermediate Examination in Science of a British University; or

(c) Present a School Certificate awarded by a British University Examination Board, and produce evidence that he has continued his study of science for at least a year and has obtained a certificate in Physics, Chemistry and Botany at the Higher Certificate examination of a British University Examination Board.

(d) Present a Leaving Certificate in Science (including Chemistry and Botany) of the Scottish Education Department.

In the case of students who satisfy the Board that they have not had the facilities for obtaining the foregoing certificates, the Board will be prepared to consider evidence of *equivalent attainment*. Applications under this rule must be lodged three months before the date of the Annual Examination.

Candidates will have the option of taking the whole of the following nine papers at one time, or of sitting for a group of any three, four or five in one year, and the remaining subjects (at one examination) within the next two years:—1. Practical Agriculture (First Paper). 2. Practical Agriculture (Second Paper). 3. Farm Machinery and Implements. 4. Land Surveying and Farm Buildings. 5. Agricultural Chemistry. 6. Agricultural Botany. 7. Agricultural Book-keeping. 8. Agricultural Zoology. 9. Veterinary Science and Hygiene.

*Before sitting for the PRACTICAL AGRICULTURE and FARM MACHINERY AND IMPLEMENTS papers, all candidates must produce evidence of possessing a practical knowledge of Agriculture obtained by residence on a farm in the British Isles for a period or periods (not more than two) covering a complete year of farming operations.*

*Fees: £6 6s.*

The Diploma granted by the National Dairy Examination Board in the Science and Practice of *Dairying* ("N.D.D.") is open to candidates who produce:—

(1) A certificate testifying that he or she has attended a Diploma Course in the subjects of the Examination covering *two academic years* at an approved Dairy Training Institution and has satisfied the authorities of the Institution of his or her fitness for admission to the Examination. This period shall include six session months' instruction (consisting of not more than two periods) in practical dairy work.

(2) Evidence that he or she has spent at least six months in not more than two periods on an approved Dairy farm and taken part in the work. This period must not run concurrently with the six months' practical training referred to in subsection 1.

*A Dairy Farm to be approved must have not fewer than fifteen cows kept in daily milking.*

A candidate who has already taken a Degree in Agriculture of a British University, or a Diploma in Agriculture recognised by the National Dairy Examination Board, will be allowed to enter for the National Diploma in Dairying Examination after one year's training at an approved Dairy Training Institution, providing such course includes at least six months' training in practical dairy work, and that he or she has worked for at least six months on an approved Dairy Farm.

In the Examination a candidate will be required to satisfy the Examiners by means of written papers, practical work, and *viva voce*, that he or she has:—

(1) A general knowledge of the Management of a Dairy Farm, including the rearing and feeding of Dairy Stock, the candidate being required to satisfy the Examiners that he or she has had a thorough training and practical experience in all the details of Dairy work as pursued on a farm.

(2) A thorough acquaintance, both practical and scientific, with everything connected with the management of a Dairy, and the manufacture of Butter and Cheese.

(3) A general knowledge of Dairy Factory Management, Dairy Hygiene, Dairy Engineering and Dairy Book-keeping.

(4) Practical skill in Dairying, to be tested by the making of Butter and Cheese.

NOTE.—A candidate must be prepared to make any one of the following varieties of Hard Pressed Cheese, the Examiner in Cheesemaking having the option of saying during the Examination what variety a candidate shall make :—

AT THE ENGLISH CENTRE :—Cheddar, Cheshire or Derby.

AT THE SCOTTISH CENTRE :—Cheddar, Dunlop or Cheshire.

Candidates will have the option of :—

- (a) Taking the whole Examination at one time; or
- (b) Taking the Examination in two parts.

A candidate taking the Examination in two parts must take the following subjects at the first sitting: DAIRY FARMING, DAIRY HYGIENE, PRINCIPLES OF DAIRYING, DAIRY FACTORY MANAGEMENT AND DAIRY ENGINEERING, PRACTICAL CHEESE-MAKING AND BUTTERMILKING; the remaining three Papers, CHEMISTRY AND PHYSICS, DAIRY BACTERIOLOGY, and DAIRY BOOK-KEEPING, to be taken at the Examination in the following year.

A candidate taking the whole Examination at one time :—

(1) who fails in any part of the practical examination shall fail in the whole examination,

(2) who fails in four or more subjects of the written examination shall fail in the whole examination,

(3) who, having passed in the practical examination, fails in not more than three subjects of the written examination may, at the discretion of the Board, appear for those subjects in the following year.

The Board may in certain circumstances require evidence of further study in these subjects.

A candidate taking the Examination in two parts, and failing in a *single subject* in the first part of the Examination, may, at the discretion of the Board, appear for that subject along with the second part; or, in the case of a *single subject* of the second part, in the following year. The Board may in certain circumstances require evidence of further study in that subject. Failure in more than one subject will be regarded as failure in that part of the Examination. Failure in any part of the Practical Examination will entail complete failure.

The entrance fees will be as follow :—

For the whole Examination taken at one £3 3s. 0d. time.



For the Examination taken in two parts :

First part	...	...	...	...	£3 3s. 0d.
Second part	...	...	...	...	£1 1s. 0d.

For re-appearance, 10s. 6d. each subject.

Further information can be obtained either through the University Bureau or Local Advisory Committee in India and the High Commissioner for India (Education Department), London, or direct from the Secretary, Royal Agricultural Society of England, 16, Bedford Square, London, W.C.1.

## II.—INSTITUTIONS WHERE QUALIFICATIONS IN AGRICULTURE MAY BE OBTAINED.

### A.—Universities and University Courses.

#### ABERDEEN. UNIVERSITY OF,

The Degree in Agriculture in the University of Aberdeen is awarded on conditions similar generally to those at Edinburgh.

#### ABERDEEN, UNIVERSITY OF : NORTH OF SCOTLAND COLLEGE OF AGRICULTURE.

The University of Aberdeen and the North of Scotland College of Agriculture work in co-operation in providing courses in Agriculture, and most of the teachers of the Central Classes of the College are Members of the University Staff. Courses of instruction are provided leading to ordinary and honours Degrees in Agriculture. Facilities are also given for research work leading to the higher degrees of Doctor of Philosophy and Doctor of Science. Associated with the University and College are two research institutes, the Rowett Institute for Research in Animal Nutrition and the Macaulay Institute for Soil Research. Courses are also given which qualify for Diplomas in Agriculture and Dairying and for a Planter's Certificate.

*Degree of B.Sc., in Agriculture.*—The Course for the B.Sc. Degree with Honours extends over four academical years of three terms each and the inclusive fee is £105, payable in two annual instalments of £31 10s. each and two of £21 each. The course for the ordinary degree of B.Sc., extends over three academical years of three terms each, and the inclusive fee is £94 10s., payable in three annual instalments of £31 10s. each.

*College Diploma in Agriculture.*—The course for this Diploma extends over two winter sessions of two terms and a short summer term which is spent largely on the experimental farm. The inclusive fee is £38 17s. 0d., of which £16 5s. 6d. is payable for each winter session and £6 6s. 0d. for the summer term.

*Planters Certificate Course.*—This course is intended to meet the requirements of those intending to enter on service on tea, rubber, sugar and other plantations. It extends to five terms, one full academical year of three terms and one winter session

of two terms. For each winter session (2 terms) the fee is £14 14s. and for the summer term £8 8s.

*National Diploma in Dairying.*—Students for this Diploma attend for two winter sessions, two terms each, at the Classes in Aberdeen and for two summer terms at the Dairy School of the West of Scotland Agricultural College at Auchincruive.

Students for Degrees and Diplomas are required to have had at least one year's practical experience on a farm before entering the College or, in the case of the Degree in Agriculture, before proceeding to study the subjects of the final year for the degree.

Students for Degrees are required to obtain the Certificate of the Entrance Board to the Scottish Universities showing that they have passed the necessary Entrance Examinations or are otherwise qualified to enter on a course of study for a Degree.

Courses for a Degree of B.Sc., in Forestry and for a Diploma in Forestry are also given in the University of Aberdeen.

Further information can be obtained either through the University Bureau or the Local Advisory Committee in India and the High Commissioner for India (Education Department) London or direct from Professor Hendrick, Marischal College, Aberdeen, Scotland, who is director of Studies in the North of Scotland College of Agriculture.

#### BRISTOL, UNIVERSITY OF.

The University of Bristol confers a degree of Bachelor of Science (Agriculture). The curriculum extends over at least three years and is divided into three parts. The first (or intermediate) part shall extend over at least one year, the second part over at least two terms, and the third or final part over at least four terms. The first two parts shall be taken in the University and the third part in the Royal Agricultural College, Cirencester.

Each part shall be completed by an examination before the next part is entered upon, unless the Science Board in any particular case shall have decided otherwise.

The first part shall extend over the first year and the subjects shall be Botany, Chemistry and Zoology as for the intermediate part of the B.Sc. degree. The examination at the end of the first part shall be the same as the intermediate examination in those subjects.

The intermediate examination shall be held in June. The Science Board may order a Supplementary examination to be held in the month of September, and may admit thereto such candidates who have failed in the June examination as it may deem fit.

The second part shall not be entered upon until the first part is completed except that a candidate who has satisfied the Examiners in two subjects only may, by the consent of the Science Board, even though he has failed in the third subject, enter in the year succeeding upon the second part of the curriculum. In such a case he shall not pass beyond the second year of the

curriculum, unless the Science Board is satisfied before October of the calendar year next succeeding his Intermediate examination that he has reached a satisfactory standard in the subject in which he failed in the Intermediate examination.

Candidates who at the time of entrance on a curriculum for the degree possess a Higher School Certificate approved as such by the Board of Education, the said Certificate showing that the candidate has satisfied the Examiners in Botany, Chemistry and Zoology, shall be exempted from the Intermediate examination and shall spend the first year in the University and shall pursue such courses as may be determined by the Dean of the Faculty of Science and the Reader in Agriculture.

The second part shall extend over the Autumn and Spring terms of the second year. The subjects shall be Chemistry (Physical and Organic), Geology, Physics, Agricultural Chemistry, Economic Mycology, Economic Entomology and Agricultural Economics. This part shall be completed by an examination to be held in March.

During the long vacation following the end of the first year and during the Easter vacation of the second year candidates shall pursue practical work on an approved farm or estate.

The third part shall extend over the Summer term of the second year and the three terms of the third year. During this part candidates may specialise in either (1) Agriculture or (2) Estate Management. The third part shall be completed by a Final Examination to be held in June.

During the long vacation following the end of the second year candidates shall attend a course on dairying and poultry farming at the Royal Agricultural College, Cirencester.

The degree shall be awarded on the results of the examinations completing the second and third parts and on a satisfactory report on all practical work including that on the approved farm. The University may require the candidate to pass a *viva voce* examination on practical farm or estate work.

Each subject of the curriculum shall comprise such courses in the several subjects as may be approved by Senate for this purpose.

*Fees* —The tuition fees for the above course are approximately as follows :—

£31 10s. for the Intermediate Course.

For the first two terms of the second year spent in Bristol £26 5s. 0d.

For each long vacation course £5 5s. 0d.

For those portions of the curriculum taken at the Royal Agricultural College, Cirencester :—

For tuition	...	£25 a term	} Payable to the Royal Agricultural College, Cirencester.
For board residence at the			
College	...	£25 a term	

and £3 3s. 0d. for the third year, payable to the University.

A condition of acceptance of a candidate for the degree of B.Sc. (Agriculture) shall be the payment of caution money to the Royal Agricultural College, Cirencester, as follows :—

Students from Great Britain and the British Empire £10 10s. 0d.

Students of foreign nationality fifty pounds.

#### BRISTOL. UNIVERSITY OF : THE ROYAL AGRICULTURAL COLLEGE.

This College awards its Diplomas to students who attend the prescribed classes over a period of two years, and who pass the necessary standard in examinations; and who spend a further year on approved practical work.

The Courses of instruction in Agriculture, Forestry and Estate Management for the Degree in Agriculture B.Sc. (Agric.) of the University of Bristol (see above) are provided at the College.

Special Courses of three or more terms instruction in farming, forestry, dairying and poultry may be arranged.

Students may reside at the College or attend daily.

*Fees.*—The fees are £150 per annum for board, lodging and instruction. The extras are : (1) Personal laundry, (2) Gate Bills (as incurred), (3) Games and reading room subscriptions, £3 3s. per annum.

For instruction only, the fees are £75 per annum.

*Fuller information can be obtained either through the University Bureau or Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Secretary, The Royal Agricultural College, Cirencester, Gloucestershire.*

#### CAMBRIDGE, UNIVERSITY OF.

Students of Agriculture may be awarded the ordinary B.A. degree after nine terms' residence and after passing the following examinations :—

(1) The Previous Examination, unless exemption has been obtained.

(2) The First Examination in Agriculture, Estate Management, Forestry, and Horticulture for the Ordinary B.A. Degree.

(3) The Second Examination in Agriculture.

(4) The Third Examination in Agriculture.

Candidates who have passed the three Examinations before the end of their eighth term may proceed to the Ordinary B.A. Degree at the end of their ninth term, provided they present a certificate that they have diligently pursued a course of study in some subject or subjects other than those in which they have already been examined.

*Fees, &c.*—These are the ordinary Cambridge University fees (*see* pages 49-51).

The Diploma in Agricultural Science is a post-graduate qualification; candidates must become members of the University by joining a College or the Society of Non-collegiate Students. The course usually lasts two years.

Candidates are only admitted to the Diploma Examination by the Degree Committee of the Faculty Board of Agriculture and Forestry, to which body satisfactory evidence of previous training in Agriculture and the allied sciences, e.g., an Honours Degree in Agriculture, or pure Science, must be presented. In most cases the Degree Committee prescribes a preliminary year's training course in subjects essential to the Diploma section chosen; the subjects are those of the Degree Examinations. After passing the preliminary examination, candidates devote a year to the preparation of their thesis in one of the following subjects of the Diploma Examinations: (a) Animal Husbandry; (b) Animal Nutrition; (c) Animal Physiology; (d) Crop Husbandry; (e) Tropical Agriculture; (f) Plant Physiology; (g) Plant Pathology; (h) Genetics; (i) Soil Science; (j) Economics; (k) Estate Management.

The Diploma is awarded on the thesis and a general examination on the subject selected.

The Examination for the Diploma is held once or twice a year, and the examination fee is £5.

#### DURHAM. UNIVERSITY OF, (ARMSTRONG COLLEGE).

This College awards a degree of B.Sc., a Diploma and a Certificate in Agriculture. For the Degree of B.Sc. in Applied Science (Agriculture) candidates are required to have satisfied the Matriculation requirement of the College (*see* pages 6-7), and to attend the regular courses at the College for three years, and to satisfy the examiners in the examination held at the end of each year.

In the First year Examination, students are required to take the following subjects: Agriculture, Chemistry, Zoology, Botany and either Pure Mathematics or Applied Mathematics or Physics.

In the Second and Final Examinations students may select one of the four optional courses, subject to the approval of the Head of the Department in Agriculture.

#### SECOND EXAMINATION.

##### Optional Course I.

Agriculture.  
Agricultural Chemistry.  
Agricultural Botany.  
Anatomy and Physiology of  
Farm Animals.  
Veterinary Hygiene.  
Land Surveying.  
Agricultural Geology.

##### Optional Course II.

Agriculture.  
Agricultural Chemistry.  
Organic Chemistry.  
Agricultural Botany.  
Anatomy and Physiology of  
Farm Animals.  
Bacteriology.  
Agricultural Geology.

*Optional Course III.*

Agriculture.  
 Anatomy and Physiology of  
 Farm Animals.  
 Economic Zoology.  
 Agricultural Chemistry.  
 Agricultural Botany.  
 Veterinary Hygiene.  
 Bacteriology.

*Optional Course IV.*

Agriculture.  
 Agricultural Botany.  
 Bacteriology.  
 Agricultural Chemistry.  
 Anatomy and Physiology of  
 Farm Animals.  
 Agricultural Geology.

## FINAL EXAMINATION.

*Optional Course I.*

Agriculture.  
 Law of Landlord and Tenant.  
 Farm Accountancy and Cost-  
 ings.  
 Agricultural Chemistry.  
 Agricultural Botany.  
 Forestry.  
 Farm Implements and Ma-  
 chinery.  
 Agricultural Entomology.

*Optional Course II.*

Agriculture.  
 Agricultural Chemistry.  
 Bacteriology.  
 Agricultural Entomology.

*Optional Course III.*

Agriculture.  
 Agricultural Entomology.  
 Agricultural Botany.  
 Agricultural Chemistry.  
 Bacteriology.

*Optional Course IV.*

Agriculture.  
 Agricultural Botany.  
 Agricultural Chemistry.  
 Agricultural Entomology.  
 Forestry.  
 Bacteriology.

For the Diploma, students are not required to qualify by examination for matriculation, but will be required to undergo such tests of general education as the Senior Tutor in applied Science, in consultation with the Head of the Department of Agriculture, may think desirable. The course of study is three Winters of two terms each, and it is expected that students will obtain practical experience on a farm during the Summer.

The course for the Certificate is intended mainly for farmers' sons. No entrance examination is required, but applicants must satisfy the Head of the Department that they are qualified to undertake the course. The course of study extends over one Winter of two terms.

*Fees.*—Degree course : £35 per annum, plus annual registration fee of £2. The examination fees are £7.

The Diploma Course (Winter Course) : £22 10s. per session, plus annual registration fee of £2.

The Certificate Course (Winter Course) : £18 per session, plus annual registration fee of £2.

## EDINBURGH. UNIVERSITY OF,

The University of Edinburgh confers a Degree of B.Sc. in Agriculture. Candidates must have satisfied the requirement of the Scottish Universities' Entrance Board (pages 30-31) and are required to attend the University for three years, (four years for a degree with honours).

The subjects of study are as follows :—

- (1) Chemistry.
- (2) Botany.
- (3) Zoology.
- (4) Physics.
- (5) Geology.
- (6) Agricultural Bacteriology.
- (7) Agricultural Botany, including Mycology.
- (8) Agricultural Zoology, including Entomology.
- (9) Agricultural Economics.
- (10) Agricultural Chemistry.
- (11) Agriculture I. (Plant Husbandry).
- (12) Agriculture II. (Animal Husbandry).
- (13) One of the following groups :—
  - (a) Agricultural Engineering and Field Work.
  - (b) Veterinary Hygiene and Genetics
  - (c) Forestry and Engineering Field Work.

The degree may be taken with Honours in any one of the following subjects :—

- (a) Chemistry.
- (b) Botany.
- (c) Zoology.
- (d) Economics.

The subjects of study shall be (1), (2), (3), (4), (7), (8), (10), (11), (12) above, and such other courses equivalent to not less than five full courses, as the Senatus, with the approval of the University Court, may from time to time appoint, provided always that such courses shall be in the subject, or in subjects cognate to the subject, in which the candidate professes Honours.

*Fees.*—£31 10s. per annum. Examination fees, £9 9s.

#### EDINBURGH, UNIVERSITY OF: THE EDINBURGH AND EAST OF SCOTLAND COLLEGE OF AGRICULTURE.

The University of Edinburgh and the Edinburgh and East of Scotland College of Agriculture co-operate in providing Degree and Diploma courses in Agriculture, Degree courses in Forestry, and courses in Dairying and Poultry-keeping, which are recognised as covering the theoretical instruction required of those presenting themselves for the examinations for the National Diploma in Dairying and the National Diploma in Poultry-keeping. The College of Agriculture also provides a Certificate course in Horticulture.

*Degree Courses in Agriculture.*—The B.Sc. degree in Agriculture may be taken either on an ordinary standard or with Honours in one of the following, (a) Chemistry. (b) Botany, (c) Zoology, (d) Economics, (e) Bacteriology. The ordinary degree course extends over three, the Honours degree course over four years. The fees (exclusive of Matriculation and Examination fees) amount to £31 10s. per annum.

*Diploma Course in Agriculture.*—This course extends over two winter sessions, the fees amounting to £23 12s. 6d. per annum. Candidates for the B.Sc. degree and for the Diploma

in Agriculture are required to produce evidence of having resided at a farm and engaged in practical work over a total period of not less than twelve months.

*Degree Courses in Forestry.*—The degree of B.Sc. in Forestry may be taken on an ordinary or on an Honours standard. The course for the former extends over three years, that for the latter over four years.

*Certificate Course in Horticulture.*—This course extends over two winter sessions, and candidates for the Certificate must have undergone not less than twelve months' practical training.

*Courses in Dairying and Poultry-keeping.*—These extend over two winter sessions. Dairying students are required to undergo three months' practical training in each of two summers at a recognised Dairy School, and also are required to engage in practical work on a dairy farm for three months in each of two summers. Poultry-keeping students are required to undergo practical training on an approved Poultry farm for a period of twelve months.

The University and the College also provide facilities for advanced study leading to the University Diploma in Agricultural Science and for research work for those wishing to offer themselves for the higher degrees of Ph.D. and D.Sc.

Further information can be obtained through the University Bureau or the Local Advisory Committee in India; the High Commissioner for India (Education Department), India House, Aldwych, W.C.2; or direct from the Principal, Edinburgh and East of Scotland College of Agriculture, 13, George Square, Edinburgh 8, Scotland.

#### GLASGOW. UNIVERSITY OF,

The University of Glasgow confers the degree of B.Sc. in Agriculture, which requires attendance at the University for three years (four years, for the Honours degree). Candidates must first satisfy the requirements of the Scottish Universities' Entrance Board (pages 30-31).

For the ordinary degree there is a first examination, a second examination and a Final examination.

The subjects for the First Examination are :—

Chemistry, Botany, Zoology and Physics.

The subjects for the Second Examination are :—

Agriculture (1st course), Agricultural Chemistry, Agricultural Botany, Geology and Agricultural Zoology.

The subjects for the Final Examination are :—

Agriculture (2nd course, including Accounting), Agricultural Economics, Farm and Estate Surveying and Engineering, Physiology of Farm Animals and Bacteriology.

For the Degree with Honours there is a first examination, a second examination, a third examination and a Final Honours examination.



The subjects for the First and Second Examinations are the same as those for the Ordinary Degree.

The subjects for the Third Examination would be the subsidiary subjects of one of the Honours Groups.

The subject for the Final Honours Examination would be the Principal Subject of one of the Honours Groups.

The Principal Subjects of the Honours Groups are as follows :—

Group A.—Agricultural Chemistry with Pure Chemistry.

Group B.—Agricultural Botany with Pure Botany.

Group C.—Agricultural Bacteriology and Bio-Chemistry with special reference to Dairy Technology.

Group D.—Agriculture and Agricultural Economics.

Group E.—Agricultural Zoology with Genetics and Economic Entomology.

The qualifying courses must be taken in the University of Glasgow and in the West of Scotland Agricultural College.

#### GLASGOW. UNIVERSITY OF : THE WEST OF SCOTLAND AGRICULTURAL COLLEGE.

This College provides in conjunction with the Glasgow University Courses for the B.Sc. Degree in Agriculture on the Ordinary and Honours standards. The College also provides courses of instruction which qualify for Diplomas in Agriculture, Dairying, Horticulture and Poultry Keeping, and for the Certificates in Bee Keeping. Students should have had at least one year's practical experience on a farm before entering the College.

*Degree Courses.*—The course for the Ordinary B.Sc. Degree extends over three years. First year (three terms), £43 1s.; second year (two terms), £28 8s.; third year (two terms), £25. The first year is taken at the University and the second and third years in this College.

The course for the Honours B.Sc. Degree extends over four years, the first and second years being the same as for the Ordinary Degree (*see above*).

*Course for the College Diploma in Agriculture.*—This course extends over three years, consisting of three winter sessions in the College, the fee being £12 per session.

*National Diploma in Agriculture.*—The course for the College Diploma in Agriculture qualifies for entry to the examination for the N.D.A.

*Course for the College Diploma in Dairying.*—This course extends over two full years, and includes two winter sessions in the College and two summer sessions in the Dairy School, Auchincruive, Ayr, where practical work is taken up. The fee for the course is £36.

*National Diploma in Dairying.*—The course for the College Diploma in Dairying qualifies for entry to the examination for the N.D.D.

*Course for the College Diploma in Poultry Keeping.*—This course extends over three winter sessions and one full summer session. Two of the winter sessions are spent in the College, and one winter session and one summer session at the Poultry School, Auchincruive, Ayr. The fee for the course is £31. The course is suitable for students who wish to qualify for the National Diploma in Poultry Keeping (N.D.P.).

*Course for the College Diploma in Horticulture.*—This lasts for three years, and includes three winter and two summer sessions. The summer sessions are held at the Horticultural Department, Auchincruive, Ayr. The fee for the course is £46.

*The Certificate in Horticulture.*—The course lasts two years (Evening Classes), the fees being £1 10s. first year, and £2 10s. second year.

*Bee Keeping.*—Junior, Senior and Advanced Courses are given, each lasting for about eight weeks. Fee £1 each course.

*Note.*—Certain subjects of study are common to two or more courses, and a student may study for two Diplomas concurrently, e.g., The College Diploma in Agriculture and The College Diploma in Dairying.

Further information can be obtained through the University Bureau or Local Advisory Committee in India and the High Commissioner for India (Education Department), London, or direct from the Principal, The West of Scotland Agricultural College, Blythswood Square, Glasgow, Scotland.

#### LEEDS. UNIVERSITY OF,

This University provides a three-year course for the ordinary Degree of B.Sc. in Agriculture, a four-year course for the degree of B.Sc. with Honours, and a course for the University Diploma in Agriculture.

*Degree Course.*—This involves whole-time attendance for three years, all of which must be subsequent to the date of passing or obtaining exemption from the Matriculation Examination of the Joint Matriculation Board (*see* pages 12-18). It should be noted that candidates for admission to the Degree Course should have spent one year on an approved farm before entering the Department.

*Fees.*—B.Sc. Pass: £42 first year; £46 per annum for the remaining years. B.Sc. Honours: £42 for the first year and £46 per annum for the remaining years. The Diploma in Agriculture, which lasts three Winter and one Summer term; First year (3 terms) £31; Second year (2 Winter Terms) £20; Third year (2 Winter Terms) £20.

#### LONDON. UNIVERSITY OF: THE SOUTH-EASTERN AGRICULTURAL COLLEGE, WYE, KENT.

This College provides courses for the Degrees in Agriculture and Horticulture of the London University; the College Diploma and Certificate in Agriculture and Horticulture; the National

Diplomas in Agriculture and Horticulture. Special preparation is afforded students taking the Professional Associateship of the Surveyors' Institution.

The tuition fees for Indian Students are £25 per annum. In addition students must be prepared to provide themselves with sufficient money to pay for board and lodging in approved rooms in Wye during the 33 weeks of the college session; also for the three vacations (19 weeks) at Wye or elsewhere. It is estimated that a sum of at least £300 annually is required to enable an Indian student to pay fees, and meet all personal expenses during residence in England.

When a candidate is notified that he can be accepted as a student, he must deposit the sum of £20 15s. as caution money, which will be refunded when the student leaves the College, provided all the regulations have been satisfactorily observed.

For the *Degrees in Agriculture and Horticulture* of the University of London, students must have attended the prescribed course extending over three years, after having passed or obtained exemption from the Matriculation Examination (see pages 19-25) and have passed the Intermediate and Final Examinations. The subjects for these Examinations are as follows :—

Intermediate (Agriculture).—Chemistry, Geology, Botany and Zoology.

Intermediate (Horticulture).—Chemistry, Botany, Zoology, Geology, Garden operations.

Final (Agriculture).—Part I. Chemistry, Botany, Zoology, Geology. Part II. Crop Husbandry, Agricultural Engineering, Animal Husbandry, Veterinary Hygiene, Farm Management, Agricultural Economics, Agricultural Accountancy.

Final (Horticulture).—Principles of Horticulture, and Practice of Horticulture.

For the *College Diplomas in Agriculture or Horticulture* students must have attended at least three years, passed the various parts of the respective Diploma Examinations, and qualified in practical work.

The subjects for the examination are as follows :—

Part I (Agriculture and Horticulture).—Agriculture and Dairying, Horticulture, Economics, Veterinary Anatomy and Physiology, Botany, Building Construction and Drawing, Chemistry, Surveying and Levelling, Poultry, Engineering.

Part II (Agriculture).—Agriculture, Economics, Chemistry, Agricultural Botany, Economic Entomology, Veterinary Science, Agricultural Engineering, Book-keeping Business Methods.

Part III (Agriculture).—Agriculture, Agricultural Chemistry, Veterinary Science, Forestry, Agricultural Law, Agricultural Botany, Farm Costs, Engineering, Economics.

Part II (Horticulture).—Horticulture (consisting of Commercial Fruit Growing and Market Gardening), Entomology, Mycology, Engineering, Book-keeping, Chemistry, Botany, Economics, Agriculture.

Part III (Horticulture).—Horticulture (including Floriculture), Systematic Pomology, Mycology, Engineering, Chemistry, Botany.

For a *College Certificate in Agriculture*, the student must have attended at least six terms, qualified in practical work, and passed in the two annual examinations: Part I (at the end of the First year)—Same subjects as for the First Year Diploma Course; and Part II (at the end of the Second Year)—Agriculture, Veterinary Science, Agricultural Engineering, Book-keeping, Economics, Agricultural Zoology, Agricultural Science, Law of Landlord and Tenant, Business Methods.

For a *College Certificate in Horticulture* the student must have attended at least six terms, qualified in practical work, and passed in the two annual examinations; Part I (at the end of the First Year)—Same subjects as for the First Year Course in Agriculture; and Part II (at the end of the Second Year)—Same subjects as for Part II of the Diploma Course in Horticulture.

The examinations for Diplomas and Certificates are held in July of each year.

The Diploma with "*Distinction*" in a subject will be granted to a student who obtains 75 per cent. or more of the maximum marks in that subject.

The Diploma with Honours can only be granted after a further year's residence, the student having performed original work in his honours subject.

Fuller information can be obtained either through the University Bureau or Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Secretary, South-Eastern Agricultural College, Wye, Kent.

#### LONDON. UNIVERSITY OF : B.Sc. IN AGRICULTURE FOR EXTERNAL STUDENTS.

A course for this Degree is provided by the East Anglian Institute of Agriculture, Chelmsford (*see* pages 333-334) in conjunction with the Chelsea Polytechnic, London.

#### OXFORD. UNIVERSITY OF,

The University grants the B.A. Degree—the examination for which may be passed "*with distinction*"—to students who take the course described below.

Students must be members of the University: the examinations are:

- (1) Responsions, to be passed (or exemption obtained by some equivalent examination) before beginning residence.
- (2) The Preliminary examination, usually at the end of one year, in the following subjects:—

- (1) Either the elements of physics and mathematics or the elementary chemistry and physics of the relation of plants and animals to their environment.
- (2) The elements of biology.
- (3) British economic history from 1760 to 1914.

(3) The Second Public examination, in the following subjects:—

- (1) The principles of plant and animal production.
- (2) Agricultural development and farm organization.
- (3) British farm practice.
- (4) The principles of estate management.
- (5) English agricultural law.
- (6) Principles of political economy.
- (7) The history of agriculture in Great Britain.
- (8) The economics of agriculture.
- (9) Soil science.
- (10) Plant and animal genetics.
- (11) Animal nutrition.

Candidates must offer five subjects, that is 1 and 2, with either 3, 4, 5, or 6, 7, 8, or 9, 10, 11.

The student must keep nine terms and pay the ordinary College and University dues.

The University also grants a *Diploma in Rural Economy* which is intended as a post-graduate course for persons specialising in any subject. Students will be admitted if they have satisfied at least one of the following conditions:—

- (a) have passed the examinations required for the Degree of B.A. at Oxford;
- (b) have been admitted to the status of Senior Student;
- (c) have obtained a diploma or degree in Agriculture approved by the Committee at a University, College or Institution approved in like manner.

The course is of one year to be spent in study at Oxford in the general principles of Agriculture and some special problem of agriculture, the results of which have been embodied in an approved dissertation. The examination is held annually in June or July.

#### READING. UNIVERSITY OF.

This University provides courses for Degrees in Agriculture and Dairying and also for a Diploma in Agriculture, Certificate in Agriculture, Diploma in Dairying, and Certificate in Dairying.

The University also provides courses for a Degree in Horticulture, a Diploma and a Certificate in Horticulture, and a Diploma in Landscape Architecture.

*Degree in Agriculture.*—A student must have satisfied the matriculation requirements of the University of London or the Northern Universities (see pages 19-25 and 12-18). The period of the course is three or four years.

The Intermediate Examination subjects are:—Chemistry, Botany, Zoology, and one other subject (ordinarily Physics or Geology or Economics). Degree candidates are expected to spend as much time as possible during their vacations upon farms, in order to obtain practical experience.

*Fees.*—The tuition fee for the session is £35.

University Registration Fee, £2.

*Diploma in Agriculture.*—The course extends over two sessions, but candidates for the Diploma are required to devote a period of twelve months to practical work on a farm, in addition to the two years of the Diploma Course at the University, and preferably before entering upon their course at the University. They are required, as a general rule, to pass an Entrance Examination in Arithmetic (including Mensuration) and English Composition; or to produce evidence of having passed an equivalent test; and also to produce evidence as to character and as to the seriousness of their purpose in becoming Diploma students.

*Fees.*—The Sessional tuition fee is £30, in addition to the registration fee of £2.

*Certificate in Agriculture.*—The course extends over one session and is intended for those who have had not less than one year's experience in farming practice.

The tuition fee is £30.

*Degree in Dairying.*—Candidates must have satisfied the matriculation requirements of the University of London or the Northern Universities (*see* pages 19-25 and 12-18).

The Intermediate requirements are the same as for the Degree in Agriculture, with the exception that Economics may not be offered as a subject. The Final course extends over two or three years.

The tuition fee for the Degree Course is £35 per session.

*Diploma in Dairying.*—Candidates are required to satisfy the entry requirements as for the Diploma in Agriculture.

The course extends over two sessions.

The tuition fee is £35 for the first session and £41 for the second.

*Certificate in Dairying.*—The course extends over six months (March—September). The tuition fee is £21.

*Degree in Horticulture.*—Candidates must have satisfied the matriculation requirements of the University of London or the Northern Universities (*see* pages 19-25 and 12-18).

Candidates are recommended to obtain some experience of practical Horticulture before entering upon the Degree Course at the University. One year is normally spent in preparation for the Intermediate Examination and two years for the Final Examination. Students should be prepared to undertake during the University Vacations a certain amount of practical work in Horticulture elsewhere than at the University.

The tuition fee for the Degree Course is £35 per session.

*Diploma in Horticulture.*—The duration of this course is two years. Each session of the course includes the 30 weeks of the ordinary University Session, together with eight weeks (in the first year) or five weeks (in the second year) occupied by practical work during vacations.

Candidates are required to satisfy the preliminary requirements of the University as for Agriculture.

The tuition fee is £30 per session.

*Certificate in Horticulture.*—This is awarded at the end of a course of study extending over 35 weeks. The session for this course consists of the 30 weeks of the University Session with five weeks occupied by practical work in vacations. The tuition fee for this is £30.

*Diploma in Landscape Architecture.*—The duration of this course is three years. Each session of the course includes the 30 weeks of the ordinary University session; in addition, eight weeks in the first year, eight weeks in the second year and five weeks in the third year are occupied by practical work during vacations.

Candidates are required to satisfy the preliminary requirements of the University as for agriculture.

The tuition fee is £30 per session.

*Diploma Examination Fee.*—£2 2s. for the First Year, Second Year, or Third Year Examination for the University Diploma in Agriculture, Dairying, Horticulture, or Landscape Architecture, or the Examination for the University Certificate in Agriculture or Dairying or Horticulture.

Students taking regular courses of day study are required to reside in a University Hall of Residence, unless they reside with their parents or guardians, or unless they hold the written permission of the Vice-Chancellor to reside elsewhere.

The cost of board and lodging at men's hostels is £75 per session of 30 weeks, and at the women's hostels the cost is £61 or £67 per session of 30 weeks.

WALES. UNIVERSITY OF: UNIVERSITY COLLEGE, ABERYSTWYTH.

This College provides a University Degree Course in Agriculture, a College Diploma Course in Agriculture, and also a College Diploma Course in Dairying.

The *Degree Course* extends over three academic years, and is open to candidates who have matriculated in the University, or who have passed a recognised equivalent examination (see pages 28-29).

Intermediate Course subjects are: Chemistry and Botany, and one or two of the following: Zoology, Physics, Geology, or Mathematics.

SUBSIDIARY COURSES ARE:

- (i) Agricultural Chemistry.
- (ii) Agricultural Botany.

FINAL COURSES ARE:

- (i) Agriculture.
- (ii) Chemistry, or Chemistry with Agricultural Chemistry.

- (iii) Botany, or Botany with Agricultural Botany.
- (iv) Zoology, or Zoology (including Agricultural Zoology).
- (v) Economics and Political Science with Agricultural Economics.

#### HONOURS COURSES ARE :

- (i) Chemistry with Agricultural Chemistry.
- (ii) Botany, or Agricultural Botany.
- (iii) Zoology, or Zoology (including Agricultural Zoology).
- (iv) Economics and Political Science, or Economics and Political Science with Agricultural Economics.
- (v) Agriculture.

*Fees.*—Annual Registration Fee £1; and £20 per session tuition free. Examination fees, £2 5s. 0d. per session.

*Diploma Course in Agriculture.*—This course is provided for candidates who have not matriculated, or who are not prepared to devote so much time to the study of Pure Science. It extends over three sessions of two terms, and students are required to attend lectures during the Michaelmas and Lent terms, and to devote the Easter Term and Summer to practical work on an approved farm.

*Fees.*—£12 5s. per session (including tuition fee, registration fee, and practical work fee). The course covers three winter sessions of two terms each. Examination fee at end of course £1.

*Diploma in Dairying.*—The course extends over two College Sessions of six terms. The winter terms are devoted to lectures and laboratory work, and the Easter term in each session to practical work in the College Dairy.

Candidates are recommended to take the courses in practical dairying before entering upon the Diploma course, and except under special circumstances are required to do so.

*Fees.*—The Fee for each session is £17 15s., including tuition fee, registration fee and practical work fee. Examination fee at end of course £1.

The College Diplomas in Agriculture and Dairying embrace all the subjects required by candidates who present themselves for the National Diploma in Agriculture and the National Diploma in Dairying.

#### WALES. UNIVERSITY OF : UNIVERSITY COLLEGE, BANGOR.

The Degree requirements are similar to those of University College, Aberystwyth.

#### *Fees.*—

	£	s.	d.	
Registration fee ... ..	1	1	0	per session.
Composition fee for lectures and laboratory courses ... ..	20	0	0	"
Subscription to College Clubs and Societies ... ..	2	0	0	"
<b>Total ... ..</b>	<b>£23</b>	<b>1</b>	<b>0</b>	<b>"</b>



Apparatus fees may also be charged for certain subjects.

**Diploma Course.**—The College Diploma Course is similar to that at Aberystwyth, except that it requires three winter sessions at the College and in the summer practical work on farms.

The Fees for these courses are £15 15s. for the winter session, including registration, various subscriptions, and apparatus charges. This fee does not include the cost of practical training during the summer periods.

### **B.—Agricultural Institutions providing Courses other than University Courses.**

**EAST ANGLIAN INSTITUTE OF AGRICULTURE, CHELMSFORD.**

The following Courses are held at the Institute :—

(1) Certificate course in Agriculture. 2 terms beginning in October, and ending in March.

(2) Diploma and Degree Courses in Agriculture. Beginning in October of each year and extending over six terms (2 years). Preparation for the College Diploma in Agriculture, the National Diploma in Agriculture, and the London External B.Sc. Degree.\*

(3) Certificate Course in Dairying. Beginning in April and ending in June (1 term). Intended primarily for those who wish to gain thorough experience in butter and cheese making.

(4) Diploma Course in Dairying. Beginning in October and extending over 6 terms (2 years). Preparation for the College Diploma in Dairying as well as for the National Diploma in Dairying.

(5) Certificate Course in Horticulture. Extending throughout the session from October to June (1 year).

(6) Diploma Course in Horticulture. Beginning in October and extending over a period of 6 terms (2 years). Preparation for the College Diploma in Horticulture. The first year's syllabus is the same as that for the Certificate Course.

(7) B.Sc. Degree Course in Horticulture. Further particulars to be obtained from the Principal.

(8) Certificate Course in Poultry Husbandry. Beginning in October and ending in June (1 year). Preparation for the Institute Certificate in Poultry Husbandry and the National Certificate in Poultry Practice awarded by the National Poultry Diploma Examination Board.

(9) Diploma Course in Poultry Husbandry. Beginning in October and extending over a period of 6 terms (2 years). Preparation for the College Diploma in Poultry Husbandry as well as for the National Diploma in Poultry Husbandry awarded by the National Poultry Diploma Board.

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\* The first year of this course is taken at the Chelsea Polytechnic, London (see pp. 119-120).

(10) Students are also accepted for short periods for practical instruction at the Horticultural Station and Poultry Instructional Station.

*Fees.*—Tuition fees £10 per annum for the Certificate Courses in :—Agriculture, Horticulture and Poultry Husbandry. £15 per annum for the Diploma Courses in :—Agriculture, Dairying, Horticulture and Poultry Husbandry. £5 for the Summer Certificate Course in Dairying.

*Board Residence.*—Male students are accommodated in approved lodgings in the town. The cost for board residence varying from £1 10s. 0d. to £1 15s. 0d. per week according to the accommodation required.

A Hostel is provided for women students, the cost for board residence varying from £1 10s. 0d. to £1 15s. 0d. per week according to the accommodation required.

Fuller information can be obtained either through the University Bureau or Local Advisory Committee in India, and the High Commissioner for India, (Education Department), London, or direct from the Principal, East Anglian Institute of Agriculture, Chelmsford, Essex.

EDINBURGH AND EAST OF SCOTLAND COLLEGE OF AGRICULTURE.  
See pages 323-324.

#### HARPER ADAMS AGRICULTURAL COLLEGE.

This College is residential and only allows students over 21 years of age to reside outside. All students are required to take part in practical work unless specially exempted.

The College is the seat of the National Institute of Poultry Husbandry, and also devotes special attention to experimental work in Pig Husbandry.

The courses of instruction provided include :

(1) An agricultural diploma course of three years' duration, but which can be completed in two years when evidence of previous scientific and agricultural training is produced ;

(2) An agricultural certificate course, extending over two years, of a less advanced character, which is intended for those who are unable to spend the full three years and who wish to farm at home or in the Colonies ;

(3) Poultry courses of one year's duration and upwards for those who intend specialising in poultry farming or poultry educational work.

Students are prepared for the Final B.Sc. (Agric.) examinations of the University of London, and for the National Diplomas in Agriculture and Poultry Husbandry. Facilities are provided for special courses either in agriculture or in poultry husbandry.

The fees for tuition are £50 per session. The charges for board and residence are £65 per session. The session consists of three terms of 11 weeks each, commencing in October.

Students who are resident abroad are required to deposit £15 caution money before entering; this is returned at the end of the course, provided that all the accounts have been settled and College regulations complied with. Students whose parents or guardians are resident abroad may be required to pay the full Tuition Fee for the session (3 terms), in advance.

The College is open to both men and women students, and residential hostels are provided on the College farm.

Fuller information can be obtained either through the University Bureau or Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Principal, Harper Adams Agricultural College, Newport, Shropshire.

#### MIDLAND AGRICULTURAL COLLEGE.

The following Courses are held at the College :—

(1) Short Course in Agriculture from October to March inclusive.

(2) Diploma and Degree Course in Agriculture commencing in September each year extending over a period of two years. Preparation for the College Diploma in Agriculture, National Diploma in Agriculture, and London B.Sc. Degree.

(3) Six weeks Courses in Dairying, two being held each term and two during the long vacation

(4) Certificate Course in Dairying, commencing in September each year, for those who wish to gain a thorough experience in the practice of cheesemaking and buttermaking.

(5) Diploma course in Dairying commencing in September each year and extending over two years for those who wish to become teachers. Preparation for the College Diploma in Dairying, and the National Diploma in Dairying.

(6) Short Courses in Poultry Keeping of 12 weeks' duration, commencing in September, January, April and July.

(7) Certificate Course in Poultry Keeping of one year's duration, chiefly practical work. Preparation for College Certificate.

(8) Diploma Course in Poultry Keeping of two years' duration commencing in September. Preparation for the College Diploma in Poultry Keeping, and for the National Diploma in Poultry Keeping.

(9) Certificate Course in Horticulture of one year's duration, commencing in September.

(10) Farm Pupils. Pupils are admitted at any time for any period. College farm of 200 acres.

There are three terms per year for the longer Courses, each of about 12 weeks' duration.

*Instruction Fees.*

For the Courses in Agriculture, Dairying, Poultry Keeping and Horticulture, £40 per term.  
Farm Pupils, £20 per term.

*Board Fees.*

£18 per term for women students.  
£20 per term for men students.

*Caution Money.*

A deposit of £20 is required (returnable if conduct, etc., is satisfactory).

Fuller information can be obtained either through the University Bureau or Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Principal, Midland Agricultural College, Sutton Bonington, Loughborough, Leicestershire.

## NORTH OF SCOTLAND COLLEGE OF AGRICULTURE.

See pages 317-318.

## ROYAL AGRICULTURAL COLLEGE, CIRENOESTER.

See page 320.

## SEALE-HAYNE AGRICULTURAL COLLEGE.

Courses at this College include (i) a three years' course for the London B.Sc. (Agric.), (ii) a three years' course for the College Diploma, (iii) short courses of 20 or 10 weeks' duration in general agriculture, dairying, poultry husbandry and horticulture.

The College and farm are recognised by the Royal Agricultural Society of England, and by the Surveyors' Institution, and the students are prepared directly for the London B.Sc. in Agriculture, the National Diplomas in Agriculture and Dairying, and for the Surveyors' Institution Intermediate Examination.

Instructional work consists of lectures and practical sciences during the forenoon, with farm classes, farm work, surveying, and garden work during the afternoon, followed by lectures in the evening on occasion.

Arrangements are made for students who have had no previous experience of practical farm work to enter as farm pupils for a year before taking one or other of the College courses. These students spend the whole of their time on practical work on the College farm, thus qualifying in the practical farm work required for the National Diploma, as well as obtaining valuable experience.

The fees for tuition, board and accommodation per term of approximately 10 weeks' duration are £40; for students other than English, £50. In the case of students who are allowed to occupy approved College lodgings, the fee for tuition only is £20 (or £25 for students other than English) per term of 10 weeks.

No application for admission can be considered unless caution money of £10 (£30 for students other than English) is forwarded at the same time.

Fuller information can be obtained either through the University Bureau or Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Principal, Seale-Hayne College, Newton Abbot, South Devon.

#### SOUTH-EASTERN AGRICULTURAL COLLEGE, WYE.

See pages 326-328.

#### STUDLEY HORTICULTURAL AND AGRICULTURAL COLLEGE FOR WOMEN.

The work of the College is carried on in four departments, in each of which training is given by means of lectures, demonstrations and practical work. Each course includes instruction in Pure and Applied Science and in Book-keeping.

Applicants for admission must have received a good general education and be not less than 17 years of age.

The following courses may be taken :—

*Horticulture.* (a) Certificate Course, 2 years.

(b) Diploma Course, 3 years.

(c) Degree Course, 3 years.

*Agriculture.* (a) Certificate Course, 2 years.

*Dairying.* (a) Certificate Course, 1 year.

(b) Diploma Course, 2 or 3 years.

*Poultry Husbandry.*

(a) Certificate Course, 1 year.

(b) Diploma Course, 2 years.

Students are prepared for the External Degree of B.Sc. (Hort.) of London University and National Diplomas in Horticulture, Dairying and Poultry Husbandry and the examinations of the Royal Horticultural Society, the British Dairy Farmers' Association and the National Poultry Council.

Courses in Bee-keeping, Carpentry, Fruit and Vegetable Preservation and Floral Decoration are open to students in any Department.

Short courses in Horticulture, Dairying and Poultry Husbandry are arranged.

The session commences in September and consists of three terms of 12 weeks each.

Fees for tuition and residence :—

Full Courses, Cubicle £115 10s. per College year.

Study Bedroom £126—£157 10s. per College year.

Short Courses £3 3s.—£4 4s. per week.

Further information may be obtained through the University Bureau or Local Advisory Committee in India and the High Commissioner for India (Education Department), London, or direct from the Secretary, The Horticultural and Agricultural College for Women, Studley, Warwickshire.

# SWANLEY : THE HORTICULTURAL AND AGRICULTURAL COLLEGE FOR WOMEN.

See pages 346-347.

# WEST OF SCOTLAND AGRICULTURAL COLLEGE.

See pages 325-326.

## III.—POST-GRADUATE AND RESEARCH WORK.

Agricultural Research is carried on in various institutions, a list of which is given below. Students seeking research facilities in any special branch should apply either direct or through the University Bureau or Local Advisory Committee, and the High Commissioner for India (Education Department), London.

- a* Aberdeen, University of.
- b* Agricultural and Horticultural Research Station, Long Ashton, Bristol, Glos.
- c* Armstrong College, Newcastle-upon-Tyne, Northumberland.
- d* Cambridge, University of.
- e* Department of Agriculture for Scotland, York Buildings, Queen Street, Edinburgh 2, Scotland.
- f* Department of Agriculture for Scotland (Seed Testing Station), East Craigs, Corstorphine, Midlothian, Scotland.
- g* East Malling Research Station, East Malling, Kent.
- h* Edinburgh, University of.
- i* Fruit and Vegetable Preservation Research Station, Campden, Glos.
- j* Hannah Dairy Research Institute, Kirkhill, Auchincruive, Ayr, Scotland.
- k* Harper Adams Agricultural College, Newport, Shropshire.
- l* Imperial College Biological Field Station, Slough, Bucks.
- m* Imperial College of Science and Technology, South Kensington, London, S.W.7.
- n* Institute of Agricultural Parasitology, Keppel Street, Gower Street, London, W.C.1.
- o* John Innes Horticultural Institution, Mostyn Road, Merton Park, London, S.W.19.
- p* Leeds, University of.
- q* Liverpool, University of.
- r* Macaulay Institute for Soil Research, Craigiebuckler, Aberdeen, Scotland.
- s* Ministry of Agriculture, Government of Northern Ireland, Stormont, Strandtown, Belfast, N.I.
- t* Ministry of Agriculture and Fisheries (Veterinary Laboratory), New Haw, Weybridge, Surrey.
- u* Molteno Institute for Research on Parasitology, Cambridge, Cambs.
- v* National Institute for Research in Dairying, Shinfield, nr. Reading, Berks.
- w* National Institute of Agricultural Botany, Huntingdon Road, Cambridge, Cambs.
- x* Oxford, University of.
- y* The Queen's University, Elmwood Avenue, Belfast, Northern Ireland.
- z* Rothamsted Experimental Station, Harpenden, Herts.
- aa* Rowett Research Institute, Bucksburn, Aberdeen, Scotland.
- bb* Royal Horticultural Society's Gardens, Wisley, Ripley, Surrey.
- cc* Royal Veterinary College, Camden Town, London, N.W.1.
- dd* Scottish Society for Research in Plant Breeding, 8, Eglinton Crescent, Edinburgh, Scotland.
- ee* Seale-Hayne Agricultural College, Newton Abbot, Devon.
- ff* University College of North Wales, Bangor.
- gg* University College of South Wales, Cardiff.
- hh* Welsh Plant Breeding Station, University College of Wales, Aberystwyth.

- ii Ministry of Agriculture, Govt. of N. Ireland, Chemical Research Division, The Queen's University, Elmwood Avenue, Belfast, Northern Ireland.  
 jj The Agricultural Research Institute, Hillsborough, County Down, Northern Ireland.  
 kk Animal Diseases Research Association, Moredun, Gilmerton, Midlothian, Scotland.  
 ll Experimental and Research Station, Cheshunt, Herts.
- Agricultural Bacteriology — *h, z*.  
 Agricultural Biochemistry — *g*.  
 Agricultural Botany — *d, y, z*.  
 Agricultural Chemistry — *a, b, d, h, p, y, z, ff, gg*.  
 Agricultural Economics — *a, c, d, e, h, p, v, x*.  
 Agricultural Engineering — *x*.  
 Agricultural Entomology — *a, b, c, d, g, h, l, p, z, ff, gg*.  
 Agricultural Parasitology — *h, n, q, u, ff*.  
 Agricultural Physics — *z*.  
 Agricultural Statistics — *x, z*.  
 Animal Breeding — *d, h, aa*.  
 Animal Genetics — *d, h*.  
 Animal Husbandry — *h, y, aa, jj*.  
 Animal Nutrition — *d, aa*.  
 Animal Pathology — *d, q, t, cc, kk*.  
 Barley — *d, z*.  
 Bees — *z*.  
 Cider — *b*.  
 Crop drying — *x*.  
 Crop Husbandry — *h, y, jj, z*.  
 Crop Improvement — *d, w*.  
 Cytology — *d, o*.  
 Dairy Bacteriology — *a, c, j, v, y, ff*.  
 Dairy Chemistry — *j, v*.  
 Dairy Husbandry — *j, v*.  
 Ecology — *ff*.  
 Farm Accountancy — *c, x*.  
 Farming Systems — *e, x*.  
 Fermentation — *b, z*.  
 Fruit Culture — *b, g*.  
 Fruit Preservation — *b, i*.  
 Fruit Products — *b*.  
 Fruit Tree Testing — *b, g, bb*.  
 Fungicides — *b, g, z*.  
 Genetics — *d, h, o*.  
 Glasshouse crops — *xx*.  
 Grain, Marketing of — *x*.  
 Grasslands, Management of — *b, d, ff, hh*.  
 Helminthology — *h, n, q, u*.  
 Hops — *g*.  
 Insecticides — *b, g, z*.  
 Live Stock, Marketing of — *x*.  
 Market garden crops — *d, xx*.  
 Microbiology — *z*.  
 Mycology — *b, c, d, g, h, p, z, ff, gg*.  
 Oats, Breeding of — *d, hh, dd*.  
 Oats, Breeding of, for resistance to frit fly — *x*.  
 Plant Breeding — *d, g, o, dd*.  
 Plant Genetics — *h, o*.  
 Plant Nutrition — *b, g, m, r, y, z*.  
 Plant Pathology — *g, y, z*.  
 Plant Physiology — *a, g, m, z*.  
 Plants, Virus Diseases of — *g, z, xx*.  
 Pomology — *b, g*.  
 Potatoes, Crop improvement of — *w, dd*.

Potatoes, Eelworm diseases of	— <i>k, n, p.</i>
Potatoes, Virus diseases of	— <i>d, dd, ff.</i>
Poultry Breeding	— <i>d, h.</i>
Poultry Diseases	— <i>k, t.</i>
Poultry Husbandry	— <i>k.</i>
Poultry Nutrition	— <i>d, k.</i>
Rabbit Husbandry	— <i>k.</i>
Seed Testing	— <i>f, w, y.</i>
Soils	— <i>r, y, z.</i>
Small Animal Breeding	— <i>d, h.</i>
Sugar Beet, Cost of production of	— <i>x</i>
Vegetable Growing	— <i>d, xx.</i>
Vegetable Pests	— <i>b, d, xx.</i>
Veterinary Research	— <i>s.</i>
Wheat, Study of	— <i>d.</i>

## FORESTRY.

### CAMBRIDGE. UNIVERSITY OF,

The teaching of Forestry at the University of Cambridge has ceased: the Examinations in Forestry for the B.A. degree have been discontinued since October, 1933, except in so far as they enter into Agricultural Examinations.

### EDINBURGH. UNIVERSITY OF,

This University provides a Degree Course (B.Sc.) in Forestry. The candidate for the Degree must have passed or obtained exemption from the Scottish Universities Entrance Examination (*see* pages 30-31). The course lasts three academic years.

The Subjects for the First Science Examination in Forestry are as follows:—

- |                |              |
|----------------|--------------|
| (1) Chemistry. | (3) Zoology. |
| (2) Botany.    | (4) Physics. |

The Subjects for the Final Science Examination are as follows:—

- |  |  |
|--|--|
| (1) Forest Botany, including<br>Forest Mycology. | (5) Forest Engineering.  |
| (2) Forest Chemistry.                            | (6) Engineering Field Work.                                      |
| (3) Geology.                                     | (7) Forestry, theoretical and<br>practical, in all its branches. |
| (4) Forest Zoology, including<br>Entomology.     |  |

The Fees for the course are £110 5s. payable in three annual instalments of £36 15s. each.

The First Science Examination, £4 4s.

The Final Science Examination, £5 5s:

The University also offers an Honours Degree in Forestry. For this Degree candidates must, subsequent to passing the examinations for the Ordinary Degree, have pursued an approved course of advanced study, theoretical and practical, extending over not less than one year. There are three grades of Honours, First, Second and Third Class. The additional fees amount to about £14 14s.



# OXFORD. UNIVERSITY OF,

The Oxford School of Forestry gives a complete course of instruction in Forestry, both theoretical and practical, together with the subjects auxiliary to it, leading to the B.A. degree.

Students must be members of the University. The examinations are

(1) Responsions (*see* pages 26-27) . to be passed (or exemption obtained by some equivalent examination) before beginning residence;

(2) the Preliminary examination, usually at the end of one year, but the examination is held twice a year in December and June. The subjects are

- (1) Mechanics and Physics and Chemistry.
- (2) Geology.
- (3) Botany
- (4) Elementary Silviculture.

(3) the Final examination, held yearly in June. The subjects are

- (1) The foundations and practice of silviculture
- (2) Forest mensuration and management.
- (3) Forest utilization.
- (4) Forest pathology.
- (5) Forest zoology.
- (6) Forestry economics and policy.
- (7) Surveying and forest engineering.

There is also a *Diploma course* of post graduate specialisation not intended to furnish a complete training in Forestry itself, since that is provided in the Degree course. Candidates must

- (a) have passed the examinations required for the B.A. degree, or
- (b) have been admitted to the status of Senior Student (*see* pages 138-139), or
- (c) have obtained a Diploma or Degree in Forestry approved by the Oxford Committee for Forestry.

The course of study is at least one year, and it should be especially noted that a knowledge of French or German is essential.

# WALES. UNIVERSITY OF : UNIVERSITY COLLEGE, BANGOR.

This College awards a Degree (B.Sc.) in Forestry. The course can be taken at the University College of North Wales, Bangor. Candidates must pass or obtain exemption from the Matriculation Examination of the University of Wales (*see* pages 28-29). The course must be pursued at the College for not less than three years.

The scheme for the Pass Degree of B.Sc. in Forestry falls into two parts: (1) the Intermediate part, normally occupying the first year, and (2) the Final part, normally occupying the second and third years. The Final part comprises one of the Combinations of subjects shown below.

### INTERMEDIATE PART.

The Intermediate part includes the four subjects: Physics, Chemistry, Botany and Zoology, except that when the student proposes to take Agricultural Economics in his Final part, Economics may be substituted for either Physics or Zoology. Before taking Botany, Zoology or Economics to a higher stage he must have passed it at the Intermediate stage. Before taking Forest Entomology in the Subsidiary stage he must have passed Zoology at the Intermediate stage.

### FINAL PART.

The Final part consists of two main subjects taken to the Final stage and examined by the University and two or three subjects taken to the Subsidiary stage examined by the College, for the University. Forestry degree students have in addition to take a course in Surveying and Forest Engineering. The Final courses occupy two sessions. The subsidiary courses normally occupy one session, but in certain cases parts of two sessions. This is the case with Agricultural Economics.

### *Rural Science Combinations, including Forestry.*

#### *Final.*

#### *Subsidiary.*

- |  |  |
|--|--|
| 7. Forestry, Agricultural Chemistry.           | Botany (including Forest Botany) and Forest Entomology or Agricultural Economics.  |
| 8. Forestry, Botany (including Forest Botany). | Agricultural Economics and Agricultural Chemistry or two of the following: Agricultural Chemistry, Forest Entomology, Agriculture. |
| 9. Forestry, Zoology.                          | Two of the following: Agricultural Chemistry, Botany (including Forest Botany), Forest Entomology, Agriculture.                    |

*Note.*—The above combinations, though permitted, are not all equally valuable as a training for a prospective Forest Officer. The best is No. 8, with Agricultural Chemistry and Forest Entomology as Subsidiary subjects, together with the College course in Surveying and Forest Engineering mentioned above.

*Fees.*—Registration Fee: £1 1s. per annum.

Composition Fee for Lectures and Laboratory Courses: £20 per annum.

An apparatus fee varying from £1 to £6 per annum is charged to students taking Chemistry. In addition there is an annual fee of £2 towards the support of College Clubs and Societies.

This College also provides a Diploma Course extending over two years. It is open to students who have not matriculated but who are accepted by a College as sufficiently educated to follow the course. The courses for the first year consist of the following subjects:—

Forestry (including field classes).	Chemistry.
Land Surveying.	Botany.
	Agriculture.

The course for the Second Year consists of the following subjects:—

Forestry (including field classes).	Forest Botany.
Agricultural Chemistry.	Zoology.
	Accounts and Book-keeping.

At least six months practical training is required and should be taken during the Easter and Summer vacations. The Fees for the Diploma course are the same as those for the Degree.

## HORTICULTURE.

The University of London awards Internal and External Degrees in Horticulture. Students may prepare for the External Degree amongst other places at the University of Reading (*see* pages 329-331), the South-Eastern Agricultural College, Wye, Kent (*see* pages 326-328), the Chelsea Polytechnic, in conjunction with the East Anglian Institute of Agriculture, Chelmsford (*see* page 333) and the Horticultural College, Swanley, Kent (for women only) (*see* page 346).

The University of Reading also awards a degree in Horticulture (*see* pages 329-331).

Diplomas or Certificates are also awarded by the University of Reading, the South Eastern Agricultural College, Wye, Kent, the West of Scotland Agricultural College, Glasgow (*see* pages 325-326), the Midland Agricultural and Dairy College, Sutton Bonington (*see* pages 335-336); The Royal Horticultural Society (*see* page 344); the Horticultural College, Swanley, Kent (for women only) (*see* page 346) and the Horticultural and Agricultural College, Studley (for women only) (*see* page 337).

Horticulture may also be studied at the Royal Horticultural Society School at Wisley (*see* pages 344-345).

## THE ROYAL HORTICULTURAL SOCIETY'S EXAMINATIONS.

These examinations are only held in Great Britain.

### *National Diploma in Horticulture.*

A final examination in Horticulture conducted by the Royal Horticultural Society. Established in 1912, with the sanction of the Board of Agriculture, and as a test of real professional ability. For the benefit of Florists, Fruit Growers, Gardeners, Horticultural Inspectors, Horticultural Instructors, Landscape Gardeners, Market Gardeners, Nurserymen, Public Park Gardeners, and Seedsmen.

### *Teachers' Examination in School and Cottage Gardening.*

Not exclusively confined to members of the Scholastic profession, but open to all candidates who can furnish a satisfactory certificate of having done practical gardening. The Advanced Section includes a practical examination.

### *General Examination.*

For students at County Council Schools, Technical Institutes, Schools, Gardeners' Mutual Improvement Societies, and other bodies to promote instruction in practical Horticulture. For Seniors of 18 years of age and over, and Juniors under 18:

### *British Floral Art Diploma.*

In 1933 the Society established this examination with the object of stimulating interest in this craft by the establishment of a Diploma. The examination is intended primarily for florists and florists' assistants, and is held twice a year, in the spring and autumn.

Further information may be obtained through the University Bureau or Local Advisory Committee in India and the High Commissioner for India (Education Department), London, or direct from the Secretary, The Royal Horticultural Society, Vincent Square, Westminster, London, S.W.1.

## THE ROYAL HORTICULTURAL SOCIETY'S SCHOOL OF HORTICULTURE.

The following are the principal conditions of admission:—

(1) Applicants for admission as Student Gardeners in the Royal Horticultural Society's Gardens at Wisley, will be furnished with an application form which must be returned to the Director completed in the applicant's own handwriting.

(2) Applicants must have attained the age of 21 years and not be more than 25: be unmarried and must remain so during their service as Student Gardeners; be qualified from previous general education and practical horticultural experience to profit by the course of instruction provided, and furnish a Medical Certificate as to fitness.

(3) An applicant will, if selected, be informed that his name has been entered for admission, and will receive notice of the next vacancy. The term usually begins on the first of January.

(4) Student Gardeners will provide their own books, stationery, note books, and such like.

(5) A maintenance allowance of 30 shillings per week will be paid to Student Gardeners with accommodation.

(6) By signing this application form for admission the applicant agrees to remain with the Society for not less than two years, the Council having full power to terminate the engagement sooner should satisfactory progress not be maintained and if conditions should arise rendering such a course, in its opinion, desirable.

(7) Student Gardeners are required to conform to all the rules and regulations of the Gardens, and to attend regularly all classes which are held usually on three or four evenings each week.

(8) In the event of injury sustained, the conditions of remuneration will be governed by the Workmen's Compensation Act, 1906.

(9) HOLIDAYS.—Each Student Gardener will be allowed the Bank Holidays, Saturday afternoons from 1 p.m., and 10 days during the year. The 10 days must be arranged, as to date, with the consent of the Director and may be taken either in August or September or possibly at Christmas. Student Gardeners will receive remuneration for any Sunday Duty performed.

(10) Student Gardeners desiring leave of absence for any special cause at other times, for a day or part of a day, must first obtain consent in writing of the Director, or in his absence of the Keeper of the Garden.

(11) In case of absence through illness, a letter enclosing medical certificate stating the cause of absence must be sent to the Director immediately.

(12) Student Gardeners misconducting themselves or breaking these rules will be subject to instant dismissal.

*Further information can be obtained through the University Bureau of Local Advisory Committee in India and the Secretary the High Commissioner for India (Education Department), London, or direct from the Director of the Royal Horticultural Society's School of Horticulture, Wisley, Ripley, Surrey.*

## SWANLEY : THE HORTICULTURAL AND AGRICULTURAL COLLEGE FOR WOMEN.

This College is for women only. The teaching in all departments is both practical and theoretical, much stress being laid on the due combination of the study of the underlying sciences and their practical bearings.

In addition to the subjects mentioned below students may attend classes in carpentry, fruit and vegetable preserving, floral decoration and rural economics.

### *Horticulture.*

1. A course of three years leading to the External Degree of B.Sc. Horticulture of the University of London.

2. The College Diploma course of three years provides an all-round practical training in Horticulture. The obligatory subjects for the Diploma Examination are :—horticulture theory and practical, botany, chemistry, plant pathology, simple surveying and book-keeping, together with *one* of the following subjects :—bee-keeping, dairy-farming or poultry-keeping.

3. College Certificate Course of two years.

(a) General.—This course includes fruit and vegetable growing for private gardens and decorative work in the flower garden and greenhouse.

(b) Commercial.—This course is designed to give instruction in the management of a horticultural holding and includes commercial fruit growing, market gardening and the growing of market crops under glass.

4. Short Course of twelve weeks.

### *Agriculture and Horticulture.*

5. Small Holders Course of two years.

This combines one year's work in the fruit plantations and vegetable garden with a second year devoted to the management of poultry, pigs and cows.

6. Short Course in Dairy Farming of six weeks.

### *Poultry Husbandry.*

7. College Certificate Course of one year.

This covers the general management of a poultry farm and provides a good training for women who intend to run their own farms or for those who wish to have paid posts. It also covers the requirements of the National Certificate in Poultry Practice.

8. Course leading to the National Diploma in Poultry Husbandry of two years.

9. Short Course of six weeks.

### *Rural Home Management.*

10. One Year Course designed for women who wish to make their home in the country, providing an introduction to poultry-keeping, dairy-farming, gardening and rural housecraft.

*Teachers' Course.*

11. Third Year or Deferred Third Year Course for teachers of general or domestic subjects.

Students reside either at the College, at one of the hostels, or, under special conditions, may be granted permission to live out.

The College year commences in September, but the Short Courses may be taken any time when there is a vacancy.

*Inclusive Fees.\***Per annum.*

£

## Tuition and Board Residence :

Single study bedroom ... ..	132
Double bedroom (each student) ... ..	120
Cubicle ... ..	111
Tuition only ... ..	50

Students pay 10s. per term to cover subscriptions to all social and athletic clubs.

*Further information can be obtained through the University Bureau or the Local Advisory Committee in India; the High Commissioner for India (Education Department), India House, Aldwych, London, W.C.2; or direct from the Secretary, Horticultural and Agricultural College for Women, Swanley, Kent.*

STUDLEY : HORTICULTURAL AND AGRICULTURAL COLLEGE FOR WOMEN.

See page 337.

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\* The above fees include all expenses except medical attendance, bedroom fire, and laundry.

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SECTION VI

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LAW

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## LAW.

## BAR.

Students desiring to become Barristers-at-Law must join an Inn of Court and keep 12 terms (four terms a year). The four Inns of Court are:—Inner Temple, Middle Temple, Gray's Inn and Lincoln's Inn, and apart from a slight variation in the fees, the conditions of admission and call to the Bar are similar in all four and are laid down in the "Consolidated Regulations."

## PRELIMINARY REQUIREMENTS.

Under the Consolidated Regulations, an applicant for admission to an Inn of Court must have passed one of the following examinations:—

I. Any examination held by any University in the British Dominions, or any of the States in India, approved by the Council of Legal Education,\* which entitles those who pass it to a degree of that University.

II. Any of the following examinations, provided that one of the subjects in which the student has passed is Latin:—

- (1) The Responsions Examination of the University of Oxford.
- (2) The Previous Examination of the University of Cambridge.
- (3) The Matriculation Examination of the Universities of London, Liverpool,† Manchester,† Leeds,† Sheffield,† Wales, Birmingham†, Bristol and Durham.

(4) The Preliminary Examination for the degree of M.A. conducted by the Scottish Universities Entrance Board according to the standard required in the case of students whose native language is English.

(5) The Principal or Ordinary Entrance Examination of the University of Dublin.

(6) The Matriculation Examination of the Royal University of Ireland, of Queen's College, Belfast, of the National University of Ireland, and of the Queen's University, Belfast.

(7) The Matriculation Examination of the University of the Cape of Good Hope, and of the Joint Matriculation Board of the South African Universities, subject to English being one of the subjects in which the Candidate has passed.

(8) The Qualifying Examination of the Royal Military College, Sandhurst, and of the Royal Military Academy, Woolwich.

(9) Any examination which entitles those who pass it to enter the Indian Civil Service or the Consular Service, or to a Commission in the Army or Navy, or to an Eastern Cadetship.

III. Any of the following examinations, provided that the student has passed in such subjects (*including Latin*), and has attained such a standard as would entitle the student to be exempted from a Matriculation Examination by one of the Universities mentioned in (1) to (7) above:—

- |  |   |
|--|---|
| (10) The Oxford Senior Local Examination†    | } Provided that one of the subjects in which the Candidate passed is certified to be English. |
| (11) The Cambridge Senior Local Examination§ |   |

\* The Indian Universities approved by the Council of Legal Education are Agra, Aligarh Muslim University, Allahabad, Andhra, Annamalai, Benares Hindu University, Bombay, Calcutta, Dacca, Delhi, Lucknow, Madras, Mysore, Nagpur, Osmania, Patna, Punjab, Rangoon

† Conducted by the Joint Matriculation Board.

‡ Now entitled The Oxford School Certificate Examination.

§ Now entitled The Cambridge School Certificate Examination.

(12) The Examination for the School Certificate held by the Oxford and Cambridge Schools Examination Board, and the Examination for the Higher Certificate held by the same Board

(13) The General School Examination (Matriculation Certificate) of the University of London

(14) The Senior Grade Examination of the Intermediate Education Board for Ireland.

(15) The Examination for the School Certificate held by the Northern Universities Joint Matriculation Board.

(16) The Examination for the School Certificate held by the Bristol University.

(17) The Examination for the School Certificate held by the Durham University."

Attention must be drawn to the facts—

(1) that unless the student holds a University degree he must pass in Latin in the examination on which he is relying for admission. *No provision is made for the substitution of a classical Oriental language.*

(2) that the examination *named* must be passed, as the fact that a University may recognise another examination as exempting from its own entrance examinations does not necessarily infer similar exemption by the Inns of Court; for instance, a student who passes the Special University Entrance Examination of the London University would be exempted from the University of London Matriculation, but this might not be recognised by an Inn of Court as an equivalent to the London Matriculation Examination required under II. (3) above.

(3) *Special attention is drawn* to the fact that the Masters of the Bench of the Inns of Court have decided that the grant of exemption from the preliminary educational requirements detailed above will be exercised only in the rarest possible cases. It is understood that the following, without others, are not deemed "special circumstances":—

Age; occupation since school or student days; coming from abroad; limit of time available for study; financial conditions; and, as regards Latin, the fact that the applicant has not learnt it, or that, having once learnt it, he has ceased to keep up his knowledge of it; or that it is not usual to learn it at the place at which he was educated; or that he has been allowed to matriculate at a University without passing in Latin. None of these is a sufficient "special circumstance," nor as a rule is any combination of them.

#### CERTIFICATES OF CHARACTER REQUIRED.

Under the Consolidated Regulations each applicant for admission must produce *two* certificates of good character, and *one* of such certificates must be from a responsible person who has known him personally for one year or upwards, and has had opportunities for judging his character.

The \_\_\_\_\_ shall be:—

(a) if he has received, or is still receiving, his general education in the United Kingdom, a certificate from the head of his school or college, or from his tutor;

(b) in all other cases—if he is a native of India, either a certificate from the Collector or Deputy Commissioner of the district in which his family resides, or from a Judge of the High Court, or from a Judge of the Judicial Commissioners' Court, or from the Principal of a College of, or affiliated to, a University approved by the Council of Legal Education\* under clause I of the Schedule,† or if his family resides in a Native State, from the Political Officer attached to the Native State, or an officer of higher rank representing the Indian Government in that State, or a certificate from the Secretary, Education Department, Office of the High Commissioner for India.

Every such certificate, except that from the Secretary, Education Department, Office of the High Commissioner for India, shall state the name, address and profession, occupation or position of the person giving it, what opportunities he has had of judging of the character of the applicant, and that he believes the applicant to be a person of respectability and fit to be admitted as a student of an Inn of Court, and shall be in the following form or to the like effect:—

"I (name) ..... of (address and profession, occupation or position)..... certify that (name and description of applicant)..... has been known to me personally for upwards of..... years last past. I have had the following opportunities of judging of his character (that is to say) I .....  
I believe him to be a gentleman of respectability and a proper person to be admitted as a student of the Honourable Society of ..... with a view to being called to the Bar.

Dated this..... day of..... 193.....

(Signature)....."

The certificate from the Secretary, Education Department, Office of the High Commissioner for India, shall be in the following form or to the like effect:—

"Enquiries have been made by the appropriate Advisory Committee or University Bureau in India, and as far as possible by me in this country as to the character and position of Mr. ...., and from the reports and other information I have received and as the result of a personal interview I have had with him I am satisfied that he is a gentleman of respectability and a proper person to be admitted as a student of the Honourable Society of ..... with a view to being called to the Bar.

Dated this..... day of..... 19.....

(Signature).....

Secretary,  
Education Department."

Special emphasis must be laid on the fact that this certificate from the Secretary, Education Department, Office of the High Commissioner for India, can only be given on the recommendation of the University Bureaux or Indian Advisory

\* See footnote on page 350.

† Printed on page 350.

ommittees, based on their enquiries, and cannot be given on personal knowledge alone. It is essential, therefore, that a student desiring this certificate should consult the Secretary of the University Bureau or Local Advisory Committee, who will forward the necessary recommendation to the Secretary, Education Department, Office of the High Commissioner for India, and thus enable him to issue it when the student arrives. Otherwise a long delay will, of necessity, be entailed whilst the University Bureau or Advisory Committee is being consulted.

Certificates must always be produced to an Inn of Court in original and certified copies are not, as a rule, accepted.

### FEES.

The fees of the various Inns are shown in detail below. In addition, the cost of living, tuition, &c., must be reckoned at £250-£300 per annum.

	Payments on Admission, including Admission Form, Government Stamp, Admission and Lecture Fees and Deposit of £150	Payments on Call,* including Government Stamp, Call and Composition Fees
	£ s d.	£ s d.
Gray's Inn ... ..	208 13 0	100 0 0
Inner Temple ... ..	209 14 3	112 0 0
Lincoln's Inn ... ..	208 14 3	102 2 6
Middle Temple .. ..	208 14 3	112 0 0

\* These payments are usually paid from the deposit of £150.

Preliminary applications can be made either through the University Bureau or Local Advisory Committee in India and the Secretary to the High Commissioner for India (Education Department), London, or direct to the particular Inn of Court to which admission is desired.

### EXAMINATIONS.

The Bar Examination consists of two parts:—

PART I.—(1) Roman Law. (2) Constitutional Law (English and Colonial) and Legal History. (3) Criminal Law and Procedure. (4) Elements of the Law of Contract and of the Law of Tort.

PART II.—FINAL EXAMINATION.—(1) Common Law. (2) Equity. (3) The Law of Evidence and Civil Procedure. (4) A general paper on the subjects 1, 2 and 3 of this Part. (5) Real Property and Conveyancing or Hindu and Mohammedan Law or Roman-Dutch Law.

The Examinations† are now held three times a year only, viz., in October, in December, and in the Spring—generally in May.

† The Bar Examination hitherto held in October, may in future be held in September.

## EDUCATION.

Instruction, under the direction of the Council of Legal Education, is given in the above subjects by the Readers and Assistant Readers at the Inns of Court, and students are entitled to attend all the lectures and classes held by them. Particulars can be obtained from the Secretary to the Council, 15, Old Square, Lincoln's Inn, W.C. 2.

## AGE.

Every student must be 21 years of age before he is "called."

## EXEMPTIONS.

1. A member of a British or Irish University may keep term by attending (without the necessity of eating) three dinners at the Hall of the Inn, instead of the six otherwise required.

2. The Council of Legal Education may accept as an equivalent for the Examination in Roman Law:—

(a) A degree granted by any University for which the qualifying examination included Roman Law;

(b) A certificate that any student has passed an examination in Roman Law forming part of any such examination, though he may not have taken a degree.

It is necessary for the student to submit a written application, addressed to the Secretary to the Council, together with the University Registrar's certificate of his having passed the examination and that it included Roman Law.

In this connection it should be carefully noted that the student with a Law degree of an Indian University is in some cases required by the Council to produce a copy of the examination paper and a certificate of the marks required for a pass, together with the marks actually obtained by him in Roman Law.

3. A Vakil, on production of a certificate that he is on the roll of Vakils of a High Court in India, may be admitted as a student without having passed any of the examinations referred to in Regulation 1, and may be called to the Bar after keeping eight terms, and, *in the case only of a Vakil who is or shall be on or before the first day of Trinity term, 1931, admitted as a student*, on production of such a certificate, and of a certificate from a practising Barrister, approved by the Council of Legal Education, that he has read for 12 months in the said Barrister's chambers in London, shall be granted a dispensation of four terms in addition to such terms as may be dispensed with by the Masters of the Bench of the Inn of Court of which he is a student either under Regulation 34, by reason of his having passed the Examination for Call to the Bar with Honours, or under Regulation 37: Provided that in no case shall any Vakil be called to the Bar without keeping four terms.

*The privileges given by this Regulation shall be confined to Vakils who at the date of admission have been on the above-mentioned roll of Vakils for not less than three years: Provided that this part of the Regulation shall not affect any student admitted within this Regulation before the 1st day of January 1929.*

*For the purpose of this Regulation, the term Vakil shall include any Advocate whose name is entered on the roll of Advocates of a High Court in India maintained under the provisions of Act XXXVIII of 1926 of the Indian Legislature, and the period of three years above mentioned shall be cumulative in the case of a student who has been on the roll of Vakils and the roll of Advocates successively.*

### *Special Note.*

A certain amount of difficulty and confusion has been caused by the fact that students do not always retain one name during their stay in this country, and may join an Inn under one name and pass their examinations under another. It is very desirable that students on arrival should decide definitely under what name they desire to be known and not change it thereafter.

### **Faculty of Advocates, Scotland.**

A knowledge of Scots Law and Conveyancing is essential.

### **Inn of Court of Northern Ireland.**

A person who applies for admission to the Inn of Court of Northern Ireland as a student will not be accepted unless he has taken Latin as one of the subjects of his Matriculation Examination or passes the Matriculation Examination in Latin at the Queen's University of Belfast, nor shall he, if accepted as a student, be called to the Bar of Northern Ireland unless he is in possession of a Degree in Arts of a University in the United Kingdom or the Irish Free State, India, or the Colonies, which has been or may be approved of by the Benchers of the Inn of Court of Northern Ireland.

### **King's Inns, Dublin.**

The rules for admission to the Society of King's Inns are generally similar to those for admission to the Bar, Latin being a compulsory subject for admission, though a Latin examination may be taken by itself.

Under the new Regulations which came into force in July 1933, the period of study for a call to the Bar has been reduced to four years provided that students who hold or are proceeding to a degree in Arts from one of the Universities in Ireland, namely, the National University of Ireland; University of Dublin; or Queen's University, Belfast, or in lieu thereof one of the University degrees approved by the Council of Legal

Education which entitle those who pass it to a degree of that University, may be admitted to the degree of Barrister of Law after a three-year period as a student of the Honourable Society.

The student must attend the lectures prescribed when keeping his terms. The total fees amount to £201 11s. for non-University and £185 16s. for University students, each of which sums include £75 Stamp Duty to the Revenue Commissioners.

### Indian High Court and Judicial Court Rules as to the Enrolment of Barristers on the Roll of Advocates.

#### ALLAHABAD.

Any Barrister of England or Ireland, any member of the Faculty of Advocates in Scotland and any graduate in Law of any University established by law in British India who in each case has further undergone a course of training\* for one year as provided by the Allahabad Bar Council under the rules made under section 15 of the Act, may present an application for his admission to the Roll of Advocates of the Court:

Provided that a person who is a graduate in Law of any such University or who has passed the Vakils' Examination of the Allahabad High Court and has been or may be enrolled as a Vakil or a Pleader prior to the 14th December 1929, may be admitted to the Roll of Advocates on presenting a certificate that—

(a) he has *bonâ fide* practised in one or more of the Courts subordinate to the Allahabad High Court for a period of not less than one year, or

(b) he has undergone training\* for a period of not less than one year in the chambers of a senior member of the profession whose name appears in a list prepared by the Bar Council and approved by the High Court,

and on furnishing evidence that he is of good moral and professional character and is in all respects a fit and proper person to be enrolled as an Advocate:

Provided that any Barrister of England or Ireland or any member of the Faculty of Advocates in Scotland who was called to the Bar prior to the 31st January 1932, and who was otherwise entitled to be enrolled as an Advocate under the rules of the Allahabad High Court in force prior to 1st June 1928, may be enrolled as an Advocate of the Court on payment of the prescribed fee under these rules:

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\* The Advocates under whom training is to be received must be in the list of Advocates approved for the purpose, and the training should be only after the Call to the Bar. As there are no Barristers residing in England who have been approved for training juniors, reading in chambers in England would not be effective training under the rules for enrolment as an Advocate in this Court.

Provided also that a graduate of a University situate in a Province, the High Court and the Bar Council of which Province do not admit to their rolls a graduate of any of the Universities situate in the United Provinces, will not be eligible for enrolment as an Advocate of this High Court.

#### BOMBAY.

The rule states that any person, being a Barrister, who shall apply to be admitted as an Advocate (Original Side) of this Court, shall, at the time of such application, produce satisfactory proof that he has been called to the Bar of England, Northern Ireland or Scotland, *that he has read for at least one year in the chambers of (a) a barrister of more than seven years' standing practising in England, or (b) an Advocate of more than seven years' standing practising on the Original Side of this High Court and approved by the Chief Justice and Judges, and that he is a man of good character and ability.*

The prescribed year's reading in chambers may be taken before or after "call."

#### BURMA.

The following may be admitted as Advocates of the Court:—

(a) Any person entitled to practise as a Barrister in England or Ireland who has read in England or Ireland in the chambers of a practising Barrister of more than five years' standing for at least one year, or

(b) Any person who has been admitted as a Member of the Faculty of Advocates in Scotland and who has been a practising Advocate in Scotland for at least two years.

(c) Solicitors of the Supreme Courts of Judicature in England and Ireland and Writers to the Signet in Scotland.

(d) Members of the Society of Solicitors practising before the Court of Session in Scotland.

#### CALCUTTA.†

A person entitled to practise as a Barrister in England or Ireland or as a member of the Faculty of Advocates in Scotland, who—

(a) intends to appear and plead in the High Court in the exercise of its original jurisdiction, and has

(b) read for not less than one year in the chambers of a practising Barrister in England (unless he is a member of the said Faculty), and has also either

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\* The words in *italics* do not apply to Barristers who have joined any of the Inns of Court before the 1st day of October 1912.

† The above Rules should be verified through the Registrar, High Court, Calcutta, as they are under consideration and may be altered in the future



(c) been educated at a College or University in the United Kingdom for not less than three years (exclusive of the year prescribed for reading in chambers as aforesaid) and produces a certificate from the authorities of such College or University that his work and conduct have been satisfactory, or

(d) taken a degree in a University in the United Kingdom, or

(e) taken a degree in Law in the University of Calcutta, Madras, Bombay, Agra, Allahabad, Dacca, Delhi, Lucknow, Nagpur, Patna, the Punjab, or Rangoon, or in the Aligarh Muslim University or in the Benares Hindu University, or a corresponding degree of such other University in India or elsewhere as the Court may accept as equivalent.

#### CENTRAL PROVINCES AND BERAR.

Members of the English or Irish Bar and members of the Faculty of Advocates in Scotland may, if the Judicial Commissioner thinks fit, be enrolled as Advocates of the High Court of these Provinces.

#### MADRAS.

Subject to the conditions hereinafter mentioned, any person who is a Barrister of England or Ireland or a member of the Faculty of Advocates in Scotland may be admitted as an Advocate of the High Court.

The conditions are that in the case of a Barrister mentioned above he shall prove to the satisfaction of the Bar Council—

(a) (i) that he has read, either in England or in India, for at least six months continuously in the chambers of a Barrister of England or Ireland or a member of the Faculty of Advocates in Scotland of not less than seven years' standing whether of the United Kingdom or India ;

(ii) that he is entitled to practise as such Barrister.

(b) He shall state in his application for admission that he intends ordinarily to practise in the High Court.

#### NORTH-WEST FRONTIER PROVINCE.

Any person who has been admitted as a Barrister in England or Ireland, or as a member of the Faculty of Advocates in Scotland shall be deemed to be qualified to apply for admission and enrolment as Advocate and as such authorised to appear and practise in the Civil, Criminal and Revenue Courts, and before Revenue Officers in the North-West Frontier Province.

### OUDH.

The following persons may apply to be admitted as Pleaders :—

(1) Persons who hold the degree of LL.B. of any University established by law in the United Provinces; and

(2) Pleaders of any other High Court in India with which reciprocity in this respect has been established :

Provided that they are of good character and conduct and have a thorough knowledge of Hindustani and can speak that language with fluency and accuracy.

### PATNA.

Any person may present an application to be admitted as an Advocate of the High Court at Patna, who—

(a) has taken a Degree in Law at any of the Universities established by law in British India or in the United Kingdom, or

(b) is a Barrister of England or Northern Ireland or a member of the Faculty of Advocates in Scotland.

In case of a person mentioned in clauses (a) and (b) above, the applicant shall not be entitled to enrolment unless he shall have—

(i) undergone a course of training for one year in the chambers of an Advocate on the roll of the Patna High Court whose name appears on a list prepared by the Bar Council and approved by the High Court or has read in chambers with a Barrister in England whose name is approved by the Inn of Court to which the applicant belongs and has secured a certificate from him of his having undergone the training and acquired efficiency, or

(ii) has practised as a Barrister in England or Northern Ireland or as a member of the Faculty of Advocates in Scotland for a period of three years.

The training shall commence after the candidate has been called to the Bar or has qualified for the Degree in Law, and the Advocate under whom the training is undergone shall, during the whole period of training, be actually practising as an Advocate in the High Court and shall certify that the candidate has for a period of one year diligently pursued his studies in his chambers, has attended the Court and is now fit to be enrolled as an Advocate.

The training referred to above shall ordinarily be under one and the same Advocate; provided that the Bar Council may for good and sufficient reason permit a person to complete his period of training in the chambers of any other Advocate or Advocates.

## PUNJAB.

Any person who has been admitted as a Barrister in England or Ireland, or as a member of the Faculty of Advocates in Scotland may be admitted to the Roll of Advocates of the High Court.

## SIND.

Subject to the conditions hereinafter prescribed, the following persons shall be qualified to apply for admission as Advocates of the Court of the Judicial Commissioner of Sind :—

- (i) Persons who have taken the degree of Bachelor of Laws of the University of Bombay or of any other University established by law in British India or taken a degree of another University which the Bar Council may by special or general order accept;
- (ii) Advocates entered on the roll of any other High Court to which the Indian Bar Councils Act has been applied; provided that the rules for admission in such High Court entitle an Advocate entered on the roll of the Court of the Judicial Commissioner of Sind to be enrolled as an Advocate of that High Court:

Provided further that the applicant is a graduate of an Indian or English University or is—

- (iii) a Barrister of England or Ireland or a member of the Faculty of Advocates in Scotland.

## SOLICITORS.

To become a solicitor it is necessary, in the first place, to pass or be exempted from the Preliminary Examination and then to serve under articles with a solicitor for five, four or three years, as the case may be, and to pass the Intermediate and Final Examination of the Law Society (Law Society's Hall, Chancery Lane, London, W.C. 2).

## PRELIMINARY EXAMINATION (Fee, £4).

This examination can be taken in either February, July or October, and the following subjects are prescribed :—

- (1) Writing from Dictation.
- (2) Writing a short English Composition.
- (3) (a) Arithmetic.  
(b) Algebra, up to and inclusive of Simple Equations, Elementary Geometry, and the subject-matter of the first four books of Euclid.
- (4) Geography of Europe and History of England.
- (5) Latin.
- (6) Any two languages, to be selected by the candidate out of the following six, namely :—
 

(a) Latin Translation.	(d) German.
(b) Greek.	(e) Spanish.
(c) French.	(f) Italian.

No candidate is obliged to take Algebra and Elementary Geometry (No. 3) (b), but if any candidate elects to do so, he may take these with *one* only of the languages (No. 6).

No books will be previously specified for the Language Examination, but passages will be given for translation at sight, without the assistance of a dictionary.

#### EXEMPTION FROM THE PRELIMINARY EXAMINATION.

Exemption is granted unconditionally to any person who has taken a degree in Arts or Laws, or has passed the Matriculation or other corresponding examination of certain Universities in this country. Exemption under certain conditions is also given to persons who have passed with credit in Latin and three other subjects selected from any or all of the following groups of subjects.—

- (1) English subjects,
- (2) Languages (other than English),
- (3) Science and Mathematics,

in the Cambridge School Certificate Examination, the Oxford School Certificate Examination and certain other approved Examinations.

INTERMEDIATE EXAMINATION (Fee, £6, and an additional £2 if the Preliminary has not been taken).

This can be taken after the completion of (a) 12 months' service, if articulated for three years; (b) 18 months' service if articulated for four years; and (c) 24 months' service if articulated for five years.

The examinations are held in each year, in March, June and November. The subjects are—

- (i) such elementary works on the Laws of England as the Examination Committee may from time to time appoint for that purpose; and
- (ii) an examination of Trust Accounts and Bookkeeping.

#### FINAL EXAMINATION (Fee, £10 10s.)

A person articulated after the 31st December 1922 (other than a clerk who has taken a degree at certain of the Universities of the United Kingdom recognised by the Society after passing a Final Examination in law at that University, or a clerk holding an order of exemption from compulsory attendance at a law school) must satisfy the Law Society that he has attended for a period of one year at a course of Legal Education at a law school provided or approved by the Society, before being admitted to the Final Examination.

The examination can be taken in either March, June or November in the following subjects:—

- (1) The Principles of the Law of Real and Personal Property and the Practice of Conveyancing.

(2) The Principles of Law and Procedure in matters usually determined or administered in the Chancery Division of the High Court of Justice.

(3) The Principles of Law and Procedure in matters usually determined or administered in the King's Bench Division of the High Court of Justice, and the Law and Practice of Bankruptcy.

(4) The Principles of Law and Procedure in matters usually determined or administered in the Probate, Divorce, and Admiralty Division of the High Court of Justice; Criminal Law and Practice; Proceedings before Justices of the Peace, and Private International Law.

#### ARTICLES.

The usual period for service under articles is five years. Persons who pass the following examinations<sup>c</sup> need only serve four years :—

First Public Examination before moderators at Oxford.

Previous Examination at Cambridge.

Examination in Arts for the second year at Durham.

Entrance Examination at Dublin, having passed in Honours.

Matriculation Examination of the University of London, first division

The Responsions Examination at St. David's College, Lampeter.

The Matriculation Examination of the Joint Matriculation Board of the Universities of Manchester, Liverpool, Leeds, Sheffield and Birmingham, first division.

The General School Examination (in Honours) of the University of London.

The Responsions Examination at Oxford.

The Preliminary Examination in Jurisprudence at Oxford.

Provided similar conditions are complied with, persons who have passed any of the following examinations need serve only for four years :—

The Higher School Examination of the University of London.

The Higher Certificate Examination of the Oxford and Cambridge Schools Examination Board, Certificate A.

The Higher School Certificate Examination of the Oxford Delegacy for Local Examinations, Certificate A.

The Higher School Certificate Examination of the Cambridge Local Examinations and Lectures Syndicate, Certificate A.

The Higher School Certificate Examination of the University of Bristol, Certificate A.

The Higher Certificate Examination of the University of Durham, Certificate A.

The Higher School Certificate Examination of the Northern Universities Joint Matriculation Board, Certificate A.

The Higher Certificate Examination of the Central Welsh Board, Certificate A.

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\* Subject to the conditions that :—

(a) Latin shall be one of the subjects taken, and if Latin is not a compulsory subject the Examination certificate shall state that the candidate has passed in Latin.

(b) All the subjects required to be taken by a candidate shall be taken at one examination, and the examination certificate shall state that they have been so taken.

Graduates in Arts, Laws, or Science of Universities who are exempted from the Preliminary Examination need only serve for three years.

### FEEs.

The premium required varies with the standing of the solicitor and the amount of business done, and it may amount to as much as £315. It is probable, however, that the articles can be arranged for £157 10s.—£210 with good firms. This fee does not cover the keep of the student, who should be prepared to spend between £240 and £300 per annum. In addition, stamp duties of £80 upon being articled and (after the Final examination) of £25 on admission, together with a fee of £5 must also be paid. A subscription of £1 10s. for a period of 12 months, 17s 6d. for a period of six months or 10s for a period of three months entitles articled clerks to the use of (1) Students' Library, (2) Common Room. The period of a ticket runs from the date of issue. They can also attend lectures and classes delivered and held at the Law Society. The composition fee for a complete curriculum of oral lectures and classes for the Intermediate is £14 and for the Final £21 (including Honours, £26 5s.).

### UNIVERSITY DEGREES IN LAW.

The degrees of LL.B. or B.L. of the various Universities must be carefully distinguished from the professional qualifications of Barrister-at-Law or Solicitor, as they are purely academic qualifications and confer no right to practise. For information regarding these degrees, *see* under the University concerned in *Section II*.

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SECTION VII

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VARIOUS PROFESSIONAL  
QUALIFICATIONS

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## ACCOUNTANCY.

The principal Societies in the United Kingdom are:—

(1) The Institute of Chartered Accountants in England and Wales;

(2) The Society of Incorporated Accountants and Auditors;

(3) The Chartered Accountants of Scotland.

*All of these require a student to pass the Preliminary, Intermediate and Final Examinations and to serve for five years under articles.* This period may be reduced by two years to graduates of Universities in England and, in the case of the Society of Incorporated Accountants, applications for a similar exemption may be granted to graduates holding certain recognised Indian University qualifications.

To become an articled pupil to a Member of one of the English Societies, it is necessary to be accepted as a pupil by a Member of the Society for whose qualifications a student is working, and for this it would be necessary to pay a premium varying from 150 to 300 guineas, according to the status of the Firm. For the Scottish Societies, the premium is £105, and there is another £105 payable to the General Fund of the Society on the candidate's admission after the prescribed examinations have been passed, as well as an annual contribution of £5 5s. payable to the Endowment and Annuity Fund of the Society.

It should be noted that no student can commence work as an articled pupil until he is sixteen years of age (in Scotland, seventeen).

### The Institute of Chartered Accountants in England and Wales.

Members are designated "Chartered Accountants."

*Preliminary Examination.*—The Preliminary Examination for persons wishing to become articled clerks is held in London, Birmingham, Manchester and Newcastle-on-Tyne, and the subjects are divided into two groups: compulsory subjects and optional subjects.

#### (A) Compulsory Subjects:—

(1) Dictation and short English composition.

(2) Arithmetic. Approximate evaluation by contracted methods, i.e. calculation of results only to the degree of accuracy required or justified by the data. Commercial Problems.

(3) Algebra and Geometry. Algebra to the solution of quadratics, including indices. The use of graphs for simple algebraic functions and for solving equations and practical problems. Numerical results to a few significant figures. (Grasp of simple principles will be looked for, and readiness in practical application, but not skill in difficult analysis.) Geometry. The substance of Euclid I–IV, together with problems involving practical geometrical drawing (to scale). The use of scale, protractor, vernier, compasses, set squares, and of squared paper.



(4) Geography. Great Britain and Ireland, and a special subject of which six months' notice is given.

(5) History. Outlines of the history of England from the year B.C. 55 to date.

(B) *Optional Subjects*.—Candidates must enter for two (and two only) of the following subjects, one at least of which must be a language :—

- |   |  |
|---|--|
| (1) Latin   | } The examination will consist of translation of passages from these languages into English, and from English into these languages, and questions in Grammar. A candidate will not be permitted to pass unless he does satisfactorily in Grammar and Composition as well as in translation ; |
| (2) Greek   |  |
| (3) French  |  |
| (4) German  |  |
| (5) Italian   |  |
| (6) Spanish   |  |
| (7) Advanced Mathematics: Algebra, Geometry, Trigonometry ; |  |
| (8) Physics ;   | (10) Geology ;   |
| (9) Chemistry ;   | (11) Stenography.  |

This examination must be passed before a student is articulated.

*Examination Fee*.—The fee is £2 2s.

*Exemption*.—Certificates of Exemption from the Preliminary Examination are issued (upon the payment of one guinea) to—

(1) Graduates of any University in the United Kingdom or of a University in the British Empire approved by the Council. The Universities of Agra, Aligarh, Allahabad, Andhra, Benares, Bombay, Calcutta, Dacca, Delhi, Lucknow, Madras, Mysore, Nagpur, Patna, Punjab, Rangoon are approved Universities.

(2) Any person holding the certificate showing that he has passed the Cambridge School Certificate Examination (which can be taken in India) provided the standard attained is shown by the Certificate to be that of "Pass with Credit" in at least five subjects (passed at the same Examination), one of which shall be "Mathematics," (Arithmetic, being part of the subject "Mathematics," will not be counted as a separate subject.)

(3) Any person holding a certificate of certain English Public Examinations under certain conditions. A list of these can be obtained on application to the Institute.

*Articles*.—After passing or obtaining exemption from the Preliminary Examination, candidates must enter into Articles of Clerkship and serve with a member of the Institute practising in England or Wales. The Intermediate and Final Examinations can only be taken in England.

*Intermediate Examination*.—This examination cannot be taken before half the term of service under articles is completed. The subjects are :—

- (1) General Commercial Knowledge, including the principles and uses of Book-keeping ;
- (2) Book-keeping and Accounts, including Limited Companies ;
- (3) Book-keeping and Accounts, including Partnership ;
- (4) Book-keeping and Accounts, including Executorship ;
- (5) Auditing.

The fee is £2 2s.

*Final Examination.*—This examination cannot be taken before the completion of the term of the service under articles.

*Subjects :—*

(a) Advanced Book-keeping and Accounts, including Limited Companies.

(b) Advanced Book-keeping and Accounts, including Partnership and the Law relating thereto.

(c) Advanced Book-keeping and Accounts, including Executorship and the Law relating thereto.

(d) Auditing.

(e) General Financial Knowledge, including Taxation, Costing and Foreign Exchanges.

(f) Company Law, including Liquidations.

(g) Law relating to Bankruptcy, Deeds of Arrangement, Receiverships and Trusteeships.

(h) Mercantile Law and the Law of Arbitrations and Awards.

The Intermediate and Final Examinations are held in London, Manchester and Leeds, in May and November of each year.

*Further information can be obtained either through the University Bureau or Local Advisory Committee, and the High Commissioner for India (Education Department), London, or direct from the Secretary, Institute of Chartered Accountants, Moorgate Place, London, E.C. 2.*

### **The Society of Incorporated Accountants and Auditors.**

Members are designated "Incorporated Accountants."

The examinations are held ordinarily in May and November at London, Manchester, Cardiff, Leeds, Glasgow, Dublin and Belfast.

*Preliminary Examination.*—This examination consists of :—

English, comprising (a) one paper on General Knowledge, including the main outlines of Modern English History and General Geography; (b) an Essay; (c) General questions testing knowledge and command of English and English Literature;

One foreign language, comprising one paper on French, German, Spanish or Latin [to be selected by the Candidate];

Mathematics, comprising one paper on Arithmetic and one paper on Algebra and Geometry.

The fee is £2 2s.

*Articles.*—After passing or obtaining exemption from the Preliminary Examination, candidates must enter into Articles of Clerkship with an Incorporated Accountant. These may be served in India, but the examinations must be taken in England. The normal period of Articles is five years.

*Intermediate Examination.*—This examination consists of:—

Book-keeping and Accounts, including Partnership and Executorship Accounts and Income Tax (two papers), Cost Accounts;

General Commercial Knowledge; Commercial Law, the Powers and Duties of Liquidators, Trustees, Executors and Receivers.

The Intermediate Examination may be taken after two years' service under articles. The fee is £2 12s. 6d.

*Final Examination.*—This examination comprises the following subjects:—

Advanced Accounting, including Partnership and Executorship Accounts, Income Tax;

Auditing, and the General Duties of Professional Accountants, including Income Tax;

Cost Accounts; Statistical Methods,

General knowledge in regard to Commerce and Finance;

The Law relating to Joint Stock Companies and Bankruptcy, Mercantile Law, including Partnership Law, and the Law of Arbitration and Awards;

The Powers and Duties of Liquidators, Trustees, Executors and Receivers;

Economics.

This examination can be taken during the fifth year of service under articles. The fee is £3 3s.

*Exemptions.*—Exemption from the Preliminary Examination can be obtained after application to the Council on the prescribed form, accompanied by one of the following certificates and the fee of £1 11s. 6d.—(1) Matriculation Examinations of approved Universities in England, Wales, Scotland, Ireland, and the British Dominions, respectively. (2) Responsions Examination at Oxford. (3) Previous Examination at Cambridge. (4) Army Qualifying Examination. (5) University of St. Andrews, three branches of Preliminary Examination. (6) Higher School Certificates of the Oxford and Cambridge Joint Board; of the Oxford and the Cambridge Local Examinations; of Bristol, Durham and London Universities, and the Northern Universities Joint Matriculation Board. (7) School Certificates of the Oxford and Cambridge Joint Board; of the Oxford Local Delegacy; of the Cambridge Local Syndicate; the School Certificates of London, Bristol, and Durham Universities, of the Northern Joint Matriculation Board, and of the Central Welsh Board; Senior Secondary School Certificate Examination of Northern Ireland (if it includes a modern language) and Leaving Certificate of the Irish Free State Department of Education (Secondary Education Branch). (8) Leaving Certificate Examination, Scottish Education Department. (9) Any other Examination hereafter to be approved by the Council of the Society.

Exemption from two years of the period under articles is granted to graduates of the Universities of the United Kingdom.

## REGULATIONS FOR CANDIDATES HOLDING INDIAN QUALIFICATIONS.

1. To obtain exemption from the Preliminary Examination a candidate must make application in the prescribed form accompanied by one of the certificates mentioned in the Society's Examination Syllabus and also in accordance with clause 2 of these regulations.

2. Further, if application be made in proper form, the Council of the Society will consider granting exemption from the Preliminary Examination if a candidate—

(a) has taken a First or Second Class in the Intermediate Examination, (i) in Arts or Science, provided a pass was obtained in English and Mathematics at that Examination, or (ii) in Commerce, provided a pass was obtained in English at that Examination and in Mathematics at the Matriculation or "Previous" Examination or First Year B.Com. Course; or

(b) has taken the Degree in the First or Second Division (i) of B.A. or B.Sc., provided a pass was obtained in English and Mathematics at the Intermediate or Final Examination leading to such Degree, or (ii) of B.Com. or LL.B., provided a pass was obtained in English at the Intermediate or Final Examination leading to such Degree and in Mathematics at the Matriculation or "Previous" Examination or First Year B.Com. Course,

of one of the following 14 Universities:—

Agra.	Bombay.	Nagpur.
Aligarh.	Calcutta.	Patna.
Allahabad.	Dacca.	Punjab.
Andhra.	Lucknow.	Rangoon.
Benares.	Madras.	

3. Upon special application, the Council of the Society will consider a reduction in the period of Articles from five years to three years if a candidate has taken the Degree (i) of B.A. or B.Sc. in First Class Honours, or in the First Division where an Honours Degree is not awarded, provided a pass was obtained in English and Mathematics at the Intermediate or Final Examination leading to such Degree, or (ii) of B.Com. or LL.B. in First Class Honours, or in the First Division where an Honours Degree is not awarded, provided a pass was obtained in English at the Intermediate or Final Examination leading to such Degree and in Mathematics at the Matriculation or "Previous" Examination or First Year B.Com. Course of one of the following nine Universities:—

Allahabad.	Dacca.	Punjab.
Bombay.	Lucknow.	Patna.
Calcutta.	Madras.	Rangoon.

4. Candidates should not complete arrangements for Articles until the decision of the Examination and Membership Committee has been given in each case.

5. Articles of Clerkship can only be served with an Incorporated Accountant in public practice ; such service may be carried out in India.

6. The following regulations apply to Articles served in India :—

(a) Candidates at the appropriate date as indicated in paragraphs 6 (b) and (c) and subject to the conditions of the Bye-Laws of the Society, must present themselves in London for the Examinations.

(b) If the period of Articles is three years, the full period must be served in India before coming to London for the Examinations.

(c) If the period of the Articles is five years, application may be made for candidates to come to London for not more than 10 months (the last 10 months of the Articles) for study without transfer of Articles.

NOTE.—Applications under the foregoing Regulations should be accompanied by (i) the original Intermediate or Degree Certificate issued by the respective Universities, and (ii) an official statement signed by the Vice-Chancellor or Registrar of the University, giving particulars of the Degree and the subjects in which the candidate has passed in the Intermediate and Final Degree Examinations, and where necessary in the "Previous" or Matriculation Examination.

Fees.—Entrance Fees: Fellows, £15 15s.; Associates, £10 10s.

Annual subscriptions :

Fellows in practice in London, £6 6s. ;

" " " " Provinces, £5 5s. ;

" " " " Scotland or Ireland, £5 5s. ;

" " " " Abroad, £1 1s.

Fellows not in practice in United Kingdom, £4 4s. ;

" " " " Abroad, £1 1s.

Associates in practice in London, £4 4s. ;

" " " " Provinces, £3 3s.

" " " " Scotland or Ireland, £3 3s. ;

" " " " Abroad, 10s. 6d.

Associates not in practice in United Kingdom, £2 2s. ;

" " " " Abroad, 10s. 6d.

*For further information, students should apply either direct or through the University Bureau or Local Advisory Committee and the High Commissioner for India (Education Department), London, to the Secretary of the Society of Incorporated Accountants and Auditors, Incorporated Accountants Hall, Victoria Embankment, London, W.C. 2.*

### Chartered Accountants of Scotland.

There are three Societies of Chartered Accountants in Scotland, viz. :—

The Society of Accountants in Edinburgh ;

The Institute of Accountants and Actuaries in Glasgow ;  
and

The Society of Accountants in Aberdeen.

All these Societies are incorporated by Royal Charter, and the Members are entitled to style themselves "Chartered Accountants" and to use the letters "C.A." after their names.

Admission can only be obtained after serving an apprenticeship with a Scottish Chartered Accountant and passing the Examinations which are conducted by the General Examining Board of the Chartered Accountants of Scotland on behalf of the Societies. The ordinary term of apprenticeship to be served is five years, and the apprentice must be at least 17 years of age before beginning his service. Graduates of a University in the United Kingdom are only required to serve an apprenticeship of four years. An apprentice must serve his apprenticeship with a Member of the Society to which he intends to apply for admission. Every Indenture submitted for Registration must, before Registration, receive the approval of the Council of the Society concerned.

While the Examinations required to qualify for Membership of each of the Societies are the same, the financial terms upon which Membership can be obtained differ to some extent. Particulars of these terms can be obtained from the Secretaries of the Societies.

The Examinations conducted by the General Examining Board of the Chartered Accountants of Scotland are usually held in the months of May and December.

#### PRELIMINARY QUALIFICATION.

This qualification must be obtained either before the commencement of the apprenticeship or within six months thereafter, and consists in passes in English, in a language other than English, in Mathematics, and in one other subject, at the Preliminary Examination for Graduation in Arts now conducted by the Scottish Universities Entrance Board ; the passes must be on the Higher Standard except in the cases of Latin or Greek, in which the Lower Standard will be accepted. These Examinations are held at the various Scottish Universities in the months of March and September.

In addition, when the Entrance Board accepts lower passes at any Examination as exempting from Lower Latin or Lower Greek, lower passes in Modern Languages at these Examinations will be accepted, as will also lower passes for the fourth subject.

Passes in certain other Examinations are accepted in lieu of the above qualification. Full particulars of these can be had in the Syllabus issued by the General Examining Board, but the following may be mentioned :—

- (1) A degree of any University in the United Kingdom.
- (2) The following passes in the School Certificate Examination of the University of Cambridge :—

(a) A pass with credit in English along with either a pass in History of England (or History of the British Empire) or a pass in Geography.

(b) A pass with credit in Additional Mathematics, Paper I.

(c) A pass with credit in Latin, or Greek, or French, or German.

(d) A pass with credit in any other subject or in a second language other than English.

#### EXAMINATIONS CONDUCTED BY THE GENERAL EXAMINING BOARD OF THE CHARTERED ACCOUNTANTS OF SCOTLAND.

(1) *Intermediate Examination*.—This Examination consists of two Divisions which must be taken separately, the First Division after not less than one year of the apprenticeship has been served, and the Second Division at any time during the apprenticeship after the passing of the First Division.

The Intermediate Examination consists of four papers on the following subjects :—

##### *First Division :*

- (1) Arithmetic and Algebra.
- (2) Compound Interest, Annuities-Certain and Elementary Statistics.

##### *Second Division :*

- (3) Book-keeping.
- (4) Accounting, &c.

The Examination Fee is £1 1s. for each Division.

(2) *Final Examination*.—A candidate cannot sit for the First Division of the Final Examination until the second diet of Examination after that at which he has completed the Intermediate Examination, and the Second Division cannot be taken till after the passing of the First Division and the expiry of his Indenture. Certain prescribed classes must be taken before entering either Division of the Examination, and a class in Economics must be taken before the issue of the Certificate of Pass in the Final Examination.

The Final Examination occupies four days and consists of seven papers on the following subjects:—

*First Division :*

(1) Scottish Law regarding Contract, Bills of Exchange and Sale of Goods; Trusts and Judicial Factories; the General Principles of Insurance; the Duties of Arbiters and Referees, including procedure.

(2) Scottish Law regarding Insolvency, Bankruptcy, Trust Deeds for Creditors and Sequestrations; Joint Stock Companies; Partnership.

*Second Division :*

(3) Book-keeping and Accounting.

(4) Income Tax and Surtax.

(5) Auditing.

(6) Trust Accounting.

(7) Investigations, Insolvencies. &c.

Examination Fees : First Division £1 1s. Second Division £2 12s. 6d.

Fuller particulars as to the ground covered by each paper and as to books recommended for study will be found in the Syllabus of Examinations issued by the General Examining Board, copies of which can be obtained from the Secretary of the Board.

The Secretary of the General Examining Board of the Chartered Accountants of Scotland is D. Norman Sloan, C.A., 190, West George Street, Glasgow. Mr. Sloan is also the Secretary of the Institute of Accountants and Actuaries in Glasgow. The Secretary of the Edinburgh Society of Accountants is Mr. L. B. Bell, C.A., 27, Queen Street, Edinburgh, and the Secretary of the Aberdeen Society of Accountants is Mr. John Reid, C.A., 6, Golden Square, Aberdeen.

*Further information can be obtained either direct from these gentlemen or through the University Bureau or Local Advisory Committee in India and the High Commissioner for India (Education Department), London.*



## ACTUARIES.

### The Institute of Actuaries.

The qualification is one obtainable solely as the result of examination and a student is not required to serve any period under articles.

An applicant for admission to the *Class of Student* must (a) have furnished such evidence of general education as the Council may from time to time prescribe and (b) have passed Part I of the Examinations under these or previous Regulations.

As evidence of general education the Council will (subject as hereinafter provided) require a Certificate showing that the applicant has passed the Matriculation or General School Examination of the University of London, or a similar Examination of any University in the British Empire, or the School Examination of the Northern Universities Joint Matriculation Board, or the Oxford or Cambridge Senior Local Examination, or some other examination approved by the Council from time to time or accepted on individual application.

As a necessary preliminary to admission to the *Class of Student*, application to become a Probationer must be made on a form prescribed for the purpose, to be signed by two Fellows of the Institute or by one Fellow and one Associate, and the applicant must furnish to the Council such evidence of his general education as is required above. If the application be approved the applicant shall become a Probationer on payment of an Entrance Fee of £2 2s., but the Council may at any time withdraw their approval and thereupon he shall cease to be a Probationer. Approval will be withdrawn if, within four years from the end of the session in which a candidate became a Probationer, he has not succeeded in passing Part I of the Examinations. An extension of the period may be granted if, in the opinion of the Council, sufficient cause be shown. Should a Probationer subsequently be admitted a Member of the Institute by passing Part I of the Examinations, one half of the fee paid by him on becoming a Probationer will be taken as covering the Entrance Fee as Student.

The annual subscription for Probationers is 10s. 6d., payable on admission and on 1st October in each year. If the subscription for any year be not paid before the 31st December then the defaulter shall no longer be a Probationer.

An applicant for admission to the *Class of Associate* must (a) be a Student and (b) have passed Parts I, II, and III of the Examinations.

An applicant for admission to the *Class of Fellow* must (a) be a Student or Associate and (b) have passed Parts I, II, III and IV.

The Examinations take place in May each year.

The Fee for each part of the Examination is £2 2s. and for one section of a part £1 1s. If after payment of the

fee a candidate withdraws his name or is prevented from presenting himself for any cause other than sickness (when a medical certificate will be required) no part of the fee will be returned or applied to a subsequent Examination.

Students should note that Insurance Companies in the United Kingdom, as a general rule, do not provide facilities for training in their Actuarial Departments, except for their own employees.

## SYLLABUS OF EXAMINATIONS.

### PART I.

- (1) Advanced Algebra, including Logarithms.
- (2) Probability.
- (3) Finite Differences, including Interpolation and Summation ; Elementary Differential and Integral Calculus.

*Questions may be set involving a knowledge of the nature and elementary relations of trigonometrical functions and of the methods of graphs and rectilinear and polar co-ordinates.*

### PART II.

#### Section A.

Compound Interest and Annuities-Certain, including the construction and use of relative Tables.

#### Section B.

The Theory of Life Contingencies and other Contingencies within the scope of actuarial work. The construction of the Life Table and other Tables based on such contingencies (excluding compilation of Tables from Statistics and Graduation) and of functions based thereon ; including the values of Annuities, Assurances (of various types) and net Premiums.

### PART III.

#### Section A.

(1) Compilation, analysis, interpretation and practical applications of Mortality, Sickness, Accident, Service and other similar Statistics and the preparation of Tables, including multiple decrement Tables, based thereon. Graduation of such Statistics and Functions derived therefrom.

(2) History, distinctive features and application of the principal Tables in general use.

(3) The application of Statistical Methods and the employment of Official Statistics in the solution of problems.

*Questions may be set requiring a knowledge of such curve-fitting methods as are covered by the prescribed course of reading, but a wider knowledge of the subject will not be expected.*

## Section B.

(1) Calculation of Office Rates of Premium for Assurances and Annuities depending on Life and other Contingencies and of Rates of Contribution to Sickness and Funeral Funds.

(2) Valuation of the Contracts of Life Assurance and Employers' Liability Insurance Companies.

(3) Valuation of Friendly Societies, the treatment of the resulting Surplus and problems connected therewith.

(4) General provisions of the Acts relating to Life Assurance Companies, Employers' Liability Insurance Companies and Friendly Societies, including the relative schedules.

## PART IV.

## Section A.

(1) Analysis and distribution of Surplus and other practical problems arising on the Valuation of Life Assurance and Employers' Liability Insurance Companies; Surrender Values of Policies and other Contracts.

(2) The Investment of the Funds of Insurance Companies and Friendly and other Provident Societies; the Valuation of Investments; Income Tax.

(3) Valuation on Life Interests and Reversions.

*General Statistical Questions may also be set in this section.*

## Section B.

(1) The determination of Rates of Contribution for Pensions' Benefits; Unemployment Benefits and Widows' and Orphans' Benefits; the Valuation of Funds providing these Benefits, and, generally, Problems connected therewith.

(2) Social Insurance Schemes

*As regards Social Insurance Schemes the student need only acquire a knowledge of the schemes in Great Britain relating to National Health Insurance, Unemployment Insurance and Widows', Orphans' and Old Age Pensions.*

*The above general particulars should be verified in each individual case, and fuller information can be obtained either through the University Bureau or Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Assistant Secretary to the Institute of Actuaries, Staple Inn Hall, Holborn, London, W.C. 1, from whom can also be obtained the Year Book published by the Institute, which contains, in addition to the foregoing Regulations and Syllabus of Examinations, the course of reading recommended, examination questions and information of a helpful kind relating to the actuarial profession. The price of the Year Book is 2s. 9d., postage paid.*

## ARCHITECTURE.

### The Examination of the Royal Institute of British Architects.

The Royal Institute of British Architects requires a candidate for the Associateship to pass three stages. He must qualify:—

- (1) As a Probationer.
- (2) As a Student.
- (3) As an Associate.

The Royal Institute publishes a pamphlet which gives full information on all the Examinations which constitute these stages and which may be obtained from the Secretary of the Royal Institute, 66, Portland Place, London, W. 1, at the price of 1s. exclusive of postage.

*For qualification as a Probationer* the applicant must produce satisfactory evidence of a good general education.

Such evidence, except in very special cases, must be:—

(a) A Certificate from one of the Schools of Architecture recognised for exemption from the R.I.B.A. Examinations, to the effect that the applicant has passed, or has received exemption from, an Entrance Examination; or

(b) A Certificate of having passed one of the Examinations recognised by the R.I.B.A. for the Probationership.

All applicants must submit drawings showing that they possess some knowledge of Drawing, except (a) when applicants submit a certificate of having passed or received exemption from the Entrance Examination to one of the Recognised Schools of Architecture, or (b) when applicants submit a certificate of having passed one of the Recognised Public Examinations with credit in Drawing or Art.

Candidates who are unable to submit certificates of general education in accordance with the regulations may make special applications, which will be considered on their merits by the Board of Architectural Education.

A fee of £4 4s. must be sent with the application for enrolment.

The name of every successful applicant is entered on the Register of Probationers of the Royal Institute of British Architects.

*The Intermediate Examination.*—Fee £5 5s. Annual contribution £1 1s. Upon enrolment as a Probationer, and attaining the age of 19 years, the candidate will proceed to qualify as a Student by passing the Intermediate Examination, which is a technical test. Exemption from this Examination

is granted to those Probationers who hold a Certificate stating that they have completed satisfactorily a course in one of the recognised Schools of Architecture, a complete list of which is inserted in the pamphlet referred to.

*The Final Examination.*—Fee £6 6s. To qualify for candidature as Associate R.I.B.A. This Examination is a Technical Examination of a more advanced nature than the Intermediate. The Student must have attained the age of 21 years. The successful candidate is entitled to become a candidate for election as Associate R.I.B.A. Exemption from this Examination is granted to those students who possess a Certificate stating that they have completed successfully a five years' or more Diploma or Degree Course, approved by the Council. A list of Schools which have established such courses is given in the pamphlet.

*The Special Examination.*—Fee £10 10s. To qualify for candidature as Associate. This Examination is open to Architects in practice and Assistants over 30 years of age whose applications are approved by the Board. The successful candidate is entitled to become a candidate for election as Associate R.I.B.A. In order to apply for admission to this Examination it is not necessary for the applicant to have been enrolled as a Probationer or to have passed the R.I.B.A. Intermediate Examination.

### **The Architectural Association.**

The school course is of five years' duration, and the Association awards a Diploma in Architecture which is recognised as exempting from the Final Examination of the R.I.B.A., and which is granted to all students who have satisfactorily completed the Five Years' Course of the School, the latter qualifying for the Associateship of the Institute (A.R.I.B.A.).

*Fees.*—Annual subscription to the Architectural Association, 2 guineas.

Entrance Fee, 2 guineas.

Students' Clubs, 13s. 4d. a term.

First Year, Second Year, and Third Year Courses, 24 guineas per term. Three terms a session.

Fourth and Fifth Year Course, 24 guineas per term.

If paid in advance for each year of three terms, 48 guineas for the three terms. This concession is only applicable to students who have completed one of the previous Years.

The fee for students admitted to the Fourth and/or Fifth Year direct is 24 guineas per term (72 guineas per annum).

*The above general particulars should be verified in each individual case, and fuller information can be obtained either through the University Bureau or Local Advisory Committee*

*in India and the High Commissioner for India (Education Department), London, or direct from F. R. Yerbury, Esq., the General Secretary to the Association, 36, Bedford Square, London, W.C. 1.*

### University Courses.

Degrees or Diplomas in Architecture are awarded by the Universities of London (the course being taken at the Bartlett School of Architecture, University College), Liverpool, Manchester, Sheffield, Glasgow, Armstrong College, and University College, Dublin. (For fees, &c., *see under the University concerned in Section II.*)

## ART

For the study of Art, the best schools in England are the Schools of the Royal Academy of Arts, Burlington Gardens; the Slade School of Drawing, Painting and Sculpture, of the University of London (University College); the Royal College of Art, South Kensington.

### Royal Academy Schools.

Students are admitted, in Painting, at any age under 21 (or 22 in exceptional circumstances stated in writing to the Keeper); in Sculpture, at any age under 25 (or 26 in exceptional circumstances stated in writing to the Keeper); in Architecture, at any age under 30. Only those under 28 may compete for Scholarships, Prizes and Medals in Painting, and those under 30 years in Sculpture and Architecture.

Application for admission can be made on 13th March, 19th June or 4th December. A Form of Recommendation must be submitted from a person of known respectability, and, accompanied with the specimens of work required and the applicant's birth certificate, addressed to the Keeper, Royal Academy Schools, Burlington Gardens, London, W. 1.

The works required are:—

In Painting, any specimens of work in Drawing and Painting;

In Sculpture, at least one Model in the round, some drawings of any kind, and any other work at the applicant's discretion;

In Architecture, a portfolio of Drawings, Designs and Sketches.

N.B.—Not more than 10 works to be submitted by any applicant.

If the work shows a high standard of merit the applicant will be admitted as a Probationer for a period not exceeding three months, and thereafter, if approved, as a Student for a term of years.

No fees of any kind are charged.

### Royal College of Art.

This College is maintained (a) to assist the training of advanced students and (b) to give professional training to teachers of Art.

The College comprises four main schools, viz. Sculpture, Drawing and Painting, Design and Engraving. There are also workshops for the practice of the craft of Stained Glass, Pottery, Embroidery and Tapestry, Furniture, Decoration, Metal work and Enamelling. Students will normally be admitted to diploma courses in one of the four schools. The diploma course at the College is of three years' duration, and it is most unlikely that exemption will be granted from any of this period on the

strength of other diplomas or recommendations. Highly qualified students may, however, take up specially arranged courses with the approval of the Principal. Instructions given to Indian students will give every consideration to the aims and traditions of Indian Art.

The Professional Course for Art Teachers occupies one year, and is open only to students who have already taken their diplomas in the College.

Students must be not less than 18 years of age and not more than 30 on admission.

It should be understood by all applicants for admission that the College is for very advanced students only.

The College reserves to itself entirely the right to judge whether an applicant is artistically qualified for admission, and though students applying from India will be exempt from the entrance tests, the question of their admission will be judged solely on the work submitted, and diplomas or recommendations on the point of the artistic value of the work submitted will not carry weight.

It is essential that original work should be submitted with the application, but the Principal is prepared to accept drawings alone. The College will not hold itself responsible for the return to India of paintings or larger works.

The fee for instruction is £31 10s. for the complete session, or £12 12s. for a single term or any less period. A sessional fee may be paid by instalments of £12 12s., £12 12s., and £6 6s., at the opening of the terms of the session.

A student desirous of joining the College must be prepared to spend not less than £150 a year for his living expenses only, and should realise that there is little chance of his being able to maintain himself by earnings from artistic or other work. Also that there are no College scholarships available to Indian students.

Women students can obtain board and residence at Queen Alexandra House, Kensington Gore, London, S.W. 7.

*The Authorities of the College desire that applications for admission to the Royal College should be submitted through the High Commissioner for India (Education Department), either direct or through the local University Students' Foreign Information Bureau or Advisory Committee.*

### Slade School.

Courses in all branches of Art are available for students at the Slade School, University College, London. Specimens of original work will, however, have to be submitted before admission can be granted. Students can work for the University Diploma in Fine Art, the course for which extends over not less than three Sessions. The composition fee for a Session, which commences in October, is £29 8s. (See also University College, London, page 99.)



### Central School of Arts and Crafts (London County Council).

This institution provides day and evening courses in the Schools of (i) Painted and Sculptured Architectural Decoration, (ii) Stained Glass, (iii) Furniture (making and design) and Interior Decoration, (iv) Textiles (design and weaving), (v) Costume, (vi) Silversmiths' work and allied crafts, (vii) Book Production (writing, lettering, binding, lay-out, &c.), Poster and Advertisement Design, (viii) Engraving (etching and lithography), (ix) (a) Architecture (General Drawing and Painting), *day course only*, (b) (i) Architecture and Building crafts, (ii) Drawing and Painting, *evening courses only*. The sessional fee for full-time day courses is £20 (for London students in London). For evening courses the fees are fixed in accordance with the number of attendances per week. Candidates are required to give evidence of having reached the standard of admission and of ability to profit from the instruction afforded by submission of examples of their work.

*Fuller particulars can be obtained from the Principal, London County Council, Central School of Arts and Crafts, Southampton Row, London, W C. 1, either direct or through the University Bureau or Local Advisory Committee in India and the Secretary to the High Commissioner for India (Education Department), London.*

### Other Art Schools

In addition to the above, excellent facilities are available in Art Schools under the control of the various local authorities, amongst which may be mentioned (a) in London the Chelsea School of Art (Chelsea Polytechnic) (see page 119), and the Westminster School of Art (Westminster Technical Institute), and (b) in the Provinces and in Scotland, the Schools of Art at Liverpool, Manchester, Leeds, Glasgow, and Edinburgh.

## BANKING.

Banking forms a branch of academic study in the Faculties of Economics and Commerce of the Universities conferring such degrees and suitable courses are provided there (see Section II of this Handbook). Applicants desirous of obtaining practical experience in Banking in this country are warned that it is extremely difficult to obtain such facilities, and in this connection it should be noted that in the Report of the Indian Central Banking Enquiry Committee the opinion was expressed that "there were better opportunities for Bank probationers and Bank assistants to get sound training in India than in England." The Report, however, considered that "only students possessing high qualifications and already having obtained good practical banking experience in India would be able to take real advantage of training in an English Bank."

Candidates who satisfy the conditions laid down in the preceding sentence should arrange any training facilities in England which they seek through the Bank in which they are actually employed.

### The Institute of Bankers.

Examinations for the Associate Certificate of the Institute of Bankers are open only to Members of the Institute and *only persons on the staff of a Bank on the list may be elected Members*. To obtain the Associate Certificate the candidate must pass Parts I and II of the Associate Examination.

The Associate Examination is held once a year in the spring, and applications from candidates outside Europe must reach the Secretary of the Institute on or before the 31st January. Applications from candidates in the Far East will only be accepted if accompanied by a letter from a European bank manager consenting to superintend the candidate's examination.

It should be noted that the Examinations can all be taken in India.

*Fuller information can be obtained either through the University Bureau or Local Committee in India, from the High Commissioner for India (Education Department), London, or direct from the Secretary, the Institute of Bankers, 5, Bishopsgate, London, E.C. 2, from whom forms of application for Membership and a copy of the Examination Syllabus can be obtained.*

## LIBRARIANSHIP.

To obtain the Fellowship of the Library Association, a candidate must first pass an approved entrance examination, and then the three examinations known as the Elementary Examination, the Intermediate Examination and the Final Examination, Parts I, II and III. They must also have passed tests in two foreign languages (these require a reading knowledge of two languages other than the mother tongue of the candidate, one of which must be a modern language), and before being awarded the certificate for the Final Examination must have had practical experience of not less than 24 hours a week for at least three years as a member of the administrative staff of one or more libraries approved by the Council. The Associateship is awarded on the result of the Intermediate Examination. Before, however, sitting for the Elementary, Intermediate or Final Examinations a candidate—

(a) must be of 17 years of age, and

(b) must have produced evidence that he or she has passed one of the prescribed examinations, amongst which are included :—

The School Certificate Examination of the Cambridge Local Examinations Syndicate.

The Matriculation or Entrance Examination of any University in the United Kingdom or other approved University.

Other certificates (including those of colonial or foreign origin) of equivalent standing will be accepted on the recommendation of the Education Committee.

In cases where a certificate has been granted, production of the original certificate is essential when the candidate first makes application to enter for an examination.

The Elementary Examination will include :—

(1) Elementary English History (one paper of three hours).

(2) Elementary Classification, Elementary Cataloguing and Accession Methods (one paper of 1½ hours).

(3) Elementary Library Administration (one paper of 1½ hours).

Candidates must pass in all three divisions at one examination.

The Intermediate Examination will include :—

(1) Library Classification (two papers of three hours each).

(2) Library Cataloguing (two papers of three hours each).

Candidates must pass in both subjects at one examination.

The Final Examination will include:—

- Part I.—(a) English Literary History (two papers of three hours each); or  
 (b) The Literary History of Science (two papers of three hours each); or  
 (c) Literary History of Economics and Commerce (two papers of three hours each).

Six months' notice must be given by candidates in either (b) or (c).

(Any candidate who has graduated at an approved University in (a) English, or (b) Science, or (c) Economics, may apply for exemption from Part I of the Final Examination).

Part II.—Bibliography and Book Selection (two papers of three hours each).

Paper 1.—General bibliography and book selection.

Paper 2.—Historical bibliography, or Palæography and Archives, or Indexing and Abstracts.

Part III.—Advanced Library Administration (three papers of three hours each).

The fee for the Elementary Examination is 10s. 6d. (for re-examination, 5s.); that for the Intermediate Examination, 21s. (for re-examination, 10s. 6d.); and for the Final Examination, 31s. 6d. (re-examination in any one part, 10s. 6d.).

It should be noted that the Library Association now hold their examinations at various centres in India, including Calcutta, Madras and Bombay, and are prepared to hold them at any centre convenient for candidates where they are able to ensure responsible invigilation.

Facilities for study and training in Librarianship include:—

(a) Correspondence courses conducted under the auspices of the Association of Assistant Librarians (Hon. Secretary, Correspondence Courses, is Mr. S. W. Martin, A.L.A., Carnegie Library, Herne Hill Road, S.E. 24). These courses normally begin in January in preparation for the December examination, and the last date of entry is the 20th December. Reduced fees for these courses are payable by members of the Library Association, the subscription for which for members overseas (known as Corresponding Members) is 15s. per annum. The fees for the correspondence courses for members of the Association are:—

		£	s.	d.
Elementary section	-	-	1	11 6
Intermediate section	-	-	2	2 0
Final section	-	-	5	15 6

Non-members of the Association pay double.

(b) Various lecture courses and summer schools.

(c) Schools of Library Training :—

(1) School of Librarianship, University of London.—The School of Librarianship at University College, Gower Street, W.C. 1, prepares students for the Fellowship of the Library Association, and for the Diploma of the University of London. The course of training is open both to matriculated students and to educated non-matriculated students. Full-time students complete the course in two academic years, and part-time students in not less than three years or more than five. The subjects of the course are those for the Library Association Examinations with the addition of certain languages. An alternative course has also been introduced for special librarians. The sessional composition fee for a full-time student is 20 guineas each session; for a part-time student taking three sessions, 14 guineas each session. The sessional fee for a separate lecture course is £2 12s. 6d. The Director of the School is E. A. Baker, M.A., D.Lit. (See also page 99.)

(2) School of Library Training, Dublin.—A course in librarianship, leading to a University Diploma in library training, was established in University College, Dublin, in the session 1927–28. Facilities for practical work are provided in the College Library. The course is particularly suited to graduates with qualifications in ancient and modern languages, and may be completed in one year. The fee for the course is 8 guineas for graduates, and an additional fee is charged for non-graduates of £2 7s. yearly. Apply to the Librarian.

*Fuller information can be obtained either through the University Bureau or Local Advisory Committee in India and the High Commissioner for India (Education Department), London, or direct from Secretary of the Library Association, Chaucer House, Malet Place, London, W.C. 1, or in respect of the University of London School of Librarianship from the Secretary, University College, Gower Street, London, W.C. 1.*

## PHARMACY.

To become a pharmacist it is necessary in the first place to obtain registration as an "Apprentice or Student," and then to pass, or obtain exemption from, the Preliminary Scientific Examination; to serve under articles of pupilage with a pharmacist in Great Britain for a specified period—normally three years—and finally to pass one of the Qualifying Examinations of the Pharmaceutical Society of Great Britain.

*Registration as an "Apprentice or Student" (Fee, £2 2s.).*

A student desiring registration as an "Apprentice or Student" must submit to the Registrar of the Pharmaceutical Society of Great Britain, 17, Bloomsbury Square, London, W.C. 1, one of a number of certificates of general education specified in the Society's Examination Regulations, a copy of which may be obtained from the Registrar of the Society.

Briefly, the certificate must be a certificate which will entitle the holder to commence a course for a degree in any recognised University in Great Britain and must include a pass in Mathematics.

*Preliminary Scientific Examination (Fee, £6 6s.).*

Candidates for this examination must have been registered as an "Apprentice or Student" and have subsequently undergone an approved systematic course of instruction occupying one academic year at a recognised institution. The subjects of the examination are Chemistry, Physics and Biology.

The examination is held in or about the first week in January, April, July and October.

*Chemist and Druggist Qualifying Examination (Fee, £12 12s.).*

Candidates for this examination must have attained the full age of 21 years; have passed the Preliminary Scientific Examination; have undergone a prescribed practical course of study under articles of pupilage, and have undergone an approved systematic course of instruction occupying one academic year at a recognised institution.

The subjects of the examination are Pharmaceutical Chemistry, Pharmacognosy, Pharmaceutics, Physiology and Forensic Pharmacy.

The examination is held in or about the first week in January, April, July and October, but normally the courses of instruction commence in September of each year.

*Pharmaceutical Chemist Qualifying Examination (Fee, £12 12s.).*

Candidates for this examination must have passed the Preliminary Scientific Examination and have completed an approved systematic course of instruction occupying two academic years at a recognised institution.

The subjects of the examination are Pharmaceutical Chemistry, Pharmacognosy, Pharmaceutics, Physiology, and Forensic Pharmacy.

The examination is held in or about the first week in January and July of each year. Before entering for this examination, it is not essential that candidates shall have attained the full age of 21 years, or have undergone the prescribed practical course of study under articles of pupilage, but no certificate of having passed the examination will be issued until the candidate is able to comply with these additional requirements.

### *Articles of Pupilage.*

The usual period for service under articles of pupilage is three years. During this period the pupil will undergo the practical course of study of at least 4,000 hours in accordance with rules prescribed in the examination regulations.

There is no general practice for the payment of a premium. The pupil may be required to pay a small premium, for example £50, but in some cases no premium is required.

NOTE.—The course for the Pharmaceutical Chemist Qualifying Examination can be taken concurrently with that for the degree of Bachelor of Pharmacy of the University of London and of Bachelor of Science (Pharmaceutics) of the University of Manchester, reference to which is contained on pages 76, 81 and 125.

The courses for the Qualifying Examinations and for the final examination for the degree of Bachelor of Pharmacy of the University of London, but not for the Preliminary Scientific Examination or the University Intermediate Examination, are conducted in the College of the Pharmaceutical Society of Great Britain. Details of fees, &c., are given on page 81.

Approved courses of instruction for the examinations of the Society can be taken at other recognised institutions, a list of which may be obtained from the Registrar of the Pharmaceutical Society.

Intending students are advised to obtain from the Pharmaceutical Press, 23, Bloomsbury Square, London, W.C. 1, a copy of the booklet "Some Notes on Pharmacy as a Career," price 1s., postage extra. This booklet includes a review of the examination regulations.

GENERAL NOTE.—*The above general particulars should be verified and fuller information obtained either through the University Bureau or Local Advisory Committee, India, or the High Commissioner for India (Education Office, London), or direct from the Registrar, The Pharmaceutical Society of Great Britain, 17, Bloomsbury Square, London, W.C. 1.*

## SANITARY INSPECTORS.

The Royal Sanitary Institute conducts examinations for sanitary inspectors at various centres throughout the British Empire.

Candidates are required at the time of making their application to furnish satisfactory evidence that they have had opportunities of gaining a practical knowledge of sanitary inspectors' works and duties.

The certificate is not granted to candidates under 21 years of age.

The fee for the examination is £4 4s.

### Other Examinations of the Royal Sanitary Institute of interest to Sanitary Inspectors.

Examination in Sanitary Science as applied to buildings and public works.

Examination qualifying for Associateship (General Hygiene and Sanitation).

Examination qualifying for Associateship (Food Hygiene).

Examination for Inspectors of Meat and Other Foods.

Examination in Tropical Hygiene for Sanitary Inspectors.

Examination qualifying for Membership.

Examination for Smoke Inspectors.

### Courses of Lectures and Demonstrations.

Courses of lectures and practical demonstrations are arranged for the examination for sanitary inspectors at:—

London, Battersea Polytechnic.	Liverpool, University School of Hygiene.
„ Hackney Institute.	Manchester College of Technology.
„ Royal Sanitary Institute.	Middlesbrough Technical College.
Aldershot, Army School of Hygiene.	Newcastle, Rutherford Technical College.
Birmingham Central Technical College.	Norwich Technical College.
Bradford Technical College.	Nottingham University College.
Bristol, Merchant Venturers' Technical College.	Oxford City Technical School.
Cardiff Technical College.	Plymouth and Devonport Technical College.
Castleford, Normanton and District Mining and Technical Institute.	Portsmouth Municipal College.
Derby Technical College.	St. Helens, Gamble Institute.
Dover, Technical Institute.	Salford Royal Technical College.
Durham, Johnston School.	Sheffield Central Commercial College.
Gillingham, Medway Technical College.	Smethwick Municipal Technical School.
Huddersfield Technical College.	Southampton, University College.
Hull, Municipal Technical College.	Swansea Technical College.
Ipswich, Public Health Department.	
Leeds Technical College.	



Courses of instruction are also available in Bombay and Burma.

Particulars of these courses should be sought from the institution in which they are held.

*Full information with regard to the examinations can be obtained either through the University Bureau or Local Advisory Committee in India, and the High Commissioner for India (Education Department), London, or direct from the Secretary, Royal Sanitary Institute, 90, Buckingham Palace Road, London, S.W. 1.*

## SURVEYING.

To be entitled to use the designation Chartered Surveyor, it is necessary to become a Fellow (F.S.I.) or a Professional Associate (P.A.S.I.) of the Chartered Surveyors' Institution.

To become a student a candidate must be between the ages of 18 and 21, and have passed the Preliminary Examination of the Institution or a recognised examination in lieu thereof, and must be either—

(1) a pupil or technical assistant in the office of a member of the Institution or of other persons substantially engaged in the profession of surveyor as defined by the Institution; or

(2) studying with a view to entering the profession at a place of professional instruction approved by the Council.

Probationers are persons whose period of studentship has expired or who have passed the Intermediate Examination.

A professional associate must be not less than 21 years of age and must have passed—

(1) the Preliminary Examination and the Intermediate and Final Examinations; or

(2) the Special Examination for holders of University degrees. (Holders of the B.A. and B.Sc. degrees in Estate Management of the Universities of Cambridge and London respectively may be exempted from this examination.)

Fellows must be not less than 30 years of age to have passed—

(1) the Preliminary or exempting Examination and the Intermediate and Final Examinations; or

(2) the direct Fellowship Examination.

They must also have held for five years and be holding a position of complete responsibility equivalent to that of a Principal in a substantial and established practice.

*Full details regarding the subjects, dates and fees of the various professional Examinations can be obtained either through the University Bureaux or Local Advisory Committees in India, the High Commissioner for India (Education Department), London, or directly from the Secretary of the Chartered Surveyors' Institution at 12, Great George Street, London, S.W.1.*

## TEACHING.

### (A) Diplomas

#### SECONDARY TEACHERS' DIPLOMAS AND DIPLOMAS IN EDUCATION.

Secondary Teachers' Diplomas or Diplomas in Education are conferred by the Universities of Aberdeen, Birmingham, Bristol, Cambridge, Durham, Edinburgh, Glasgow, Leeds, Liverpool, London, Manchester, Oxford, Reading, St Andrews, Sheffield, Wales (Aberystwyth, Bangor, Cardiff and Swansea) In all these Universities candidates for the Diploma are required to have either graduated in a University in the United Kingdom, or to have obtained such other academic qualifications as shall be approved by the Senate of the University concerned as being equivalent to a degree Applications from graduates of Indian Universities and holders of Teaching Certificates granted by the Departments of Public Instruction in India are in each case considered on their own merits

The course for the Diploma covers in all cases one academic year, and candidates, before being awarded the Diploma, are required to pass an examination in the Theory, History and Practice of Education.

For tuition and examination fees at the various Universities *see under* the Universities concerned in *Section II*.

A Higher Degree is also obtainable at various Universities and requires as a general rule at least two years' study for graduates of recognised Universities, the first year covering the Diploma course. The Degrees are as follows: MEd. at Durham, Leeds, Manchester, MA (in Education or Pedagogy) at Birmingham, Bristol, Liverpool and London; B.Ed. at Edinburgh; and the Ed.B at Aberdeen, Glasgow and St. Andrews (For further details *see under* the heading of the University concerned in *Section II*.)

### (B) Froebel.

The National Froebel Union awards four Certificates —

- (a) A Teacher's Certificate,
- (b) A Diploma for Persons engaged in the Training of Teachers;
- (c) A Teacher's Diploma in Handwork,
- (d) A Nursery School Diploma

(a) *Diploma for Persons engaged in the Training of Teachers.*

Before being admitted as a candidate for the Trainer's Diploma, a person must produce evidence—

- (1) of being not less than 25 years of age on 1st November of the year in which the examination is taken;

(2) of having obtained, after a course of professional training, either an approved University Certificate or Diploma in Education, or the Teacher's Certificate of the National Froebel Union, or the Teacher's Certificate of the Board of Education;

(3) of having had at least three years of experience in school teaching;

(4) of having also had at least one year's experience on the staff of a demonstration school, or of having spent at least one term in a training college or department, with adequate opportunities of conducting classes of students, and of supervising their practice in teaching.

The Examination for the Diploma will include :—

- (i) Two papers on the Principles of Education ;
- (ii) A thesis on an educational subject to be proposed by the candidate and approved by the National Froebel Union, and to be the outcome of special study or research ;
- (iii) Tests of practical ability in conducting the professional work of students in training.

The written examination will be held in each year on the third Tuesday in November; and the practical examination about the same time.

Application forms should be obtained and sent to the Secretary not later than the first day in October and the fee for the Examination £6 6s. should be sent therewith.

The examination can only be taken in England.

#### (b) *A Teacher's Diploma in Handwork.*

This Diploma is open to candidates who have *either* obtained a Teaching Diploma, approved for the purpose by the Governors, or produced such evidence of general education and of experience in teaching as is deemed adequate by the Governors.

The subjects of the Examination are in six groups :—  
*Group I*—General Handwork (compulsory); *Group II*—Pottery and Clay Modelling; *Group III*—Needlework, Embroidery and Knitting; *Group IV*—Woodwork; *Group V*—Book-binding and Cardboard Modelling; *Group VI*—Weaving and Basketry.

Candidates will have to satisfy the examiners in *Group I* and in any two of the other groups in order to obtain the Diploma.

*N.B.*—Candidates who have obtained a First Class in Handwork in the Teacher's Certificate of the National Froebel Union at any time during the last 10 years need only take the paper in *Group I*.

The Examination for the Diploma will include :—

- (a) A practical and written examination in each group;
- (b) A test of practical ability in teaching for pupils over 14 years of age in one of the groups chosen.

Applications must be obtained and sent to the Secretary not later than 1st May, and the fee of £3 3s. for each group should be sent therewith.

The written examination takes place in July.

The practical portions of the Examination will be held at convenient times from May to July in London.

(c) *Teacher's Certificate.*

For the Teacher's Certificate a candidate must produce evidence that she is 18 years of age on or before 30th June of the year in which Part I of the Examination is taken and a certificate of good character; must give evidence of adequate general education by producing a certificate of having passed (amongst other examinations) either the Matriculation Examination, or School Leaving Certificate, of any British University or the School Certificate Examination of the University of Cambridge; or any corresponding or higher examination approved for the purpose by the National Froebel Union.

The Examination is divided into two parts. The subjects included in Part I are: (1) Literature, (2) Nature Knowledge (Section I), (3) Nature Knowledge (Section II), (4) Elements of Mathematics, (5) Geography, (6) History.

The Examination in Class Teaching will differ according as the candidate is qualifying to be (a) a teacher of children under eight years of age, or (b) a teacher of children over eight.

A candidate may present herself for examination in one or more of the following subjects:—Music, Art, Religious Knowledge or an advanced subject, Literature, Geography, History.

Graduates of a British University or persons who have been trained as Infant or Junior School Teachers for two years in a Training College conducted under the Board of Education's Regulations for the Training of Teachers in Elementary Schools, may be admitted to Part II of the Certificate Examination without having taken Part I, provided they have been trained for a year for Part II in a Training College specially approved for this purpose by the Governors of the National Froebel Union.

The fee for candidates taking all three parts of the Examination is £3 3s. for each part, i.e. a total of £9 9s.

The fee for candidates who are exempt from Part I is £6 6s. for Part II.

[There will be no remission of fee in the case of candidates who are exempt from Child Hygiene in Part II.]

Those candidates who have already entered for any part of the Examination before 1932 will continue under the old scale of fees, i.e. £4 4s. for Part I, £2 12s. 6d. for Part II, £2 12s. 6d. for Part III; except in the case of separate subjects (see below).

The fee for any practical subject taken separately (i.e. Class Teaching, Handwork, Music, Drawing) is £1 11s. 6d.

The fee for any written subject taken separately is £1 1s.

All the written examinations will be held in July, and the form of application for admission to all parts of the examination must be submitted by April 1934.

It should be noted that the Governors, although they strongly recommend College training, allow candidates to train where they wish, and it is open to students to take the written portion of the examinations in India. They should communicate with the Secretary, giving the name of a responsible person who will undertake the necessary supervision. The Practical portion of the examination can, however, as a rule, only be taken in England.

There are many Colleges which train for the Froebel Examinations, and of these, six (viz. in London, The Training College, Clapham High School, 55, South Side, Clapham Common, S.W. 4; Froebel Educational Institute, Roehampton, S.W. 15 (see page 397); Maria Grey Training College, Brondesbury, N.W. 6 (see page 94); Rachel McMillan Training Centre, Deptford, S.E. 8; and St. Mary's College, Lancaster Gate, W. 2; and in Bedford, The Training College, the Crescent), are recognised by the Board of Education. Candidates who train at one of the latter are awarded the Government Teacher's Certificate when they have obtained the Froebel Certificate.

#### (d) *Nursery School Diploma.*

This Diploma is intended as a qualification for a Nursery School Superintendent.

The following are the normal conditions of admission to this examination. The candidate must have—

(i) undergone an approved course of training in a Training College;

(ii) had at least three years of teaching experience;

(iii) undergone a course of practical training in an approved Nursery School for at least two terms, but preferably for three;

(iv) had adequate opportunities of observing the organisation and management of other nursery schools and classes;

(v) attended at a children's hospital or some similar institution for at least six weeks.

There will be a written and oral examination.

The written examination will be held each year on the second Tuesday in October.

The fee for the examination is £6 6s.

The examination can only be taken in England.

*Further information and copies of the full Regulations and Syllabuses should be obtained from the Secretary, Froebel Union, 18, Adam Street, Adelphi, London, direct or through the University Bureau or Local Advisory Committee in India and the High Commissioner for India (Education Department), London.*

## THE FROEBEL EDUCATIONAL INSTITUTE

The course of training for the National Froebel Union Teacher's Certificate lasts three years, and the Certificate is awarded to those students who have passed the Internal Examination of the College. They also obtain the Board of Education Teacher's Certificate.

Applicants may be day or resident students. For admission they must be above the age of seventeen-and-a-quarter, and must hold a certificate of sound general education, such as the London Matriculation, the Cambridge School Certificate, &c.

All the fees are payable in advance.

1st year—£15 15s. per term.

2nd year—£18 18s. per term

3rd year—£22 1s. per term

In addition, there is a subscription (£1 15s.) to the Library and Games and Garden, which is compulsory.

For residence, the charge is £36 15s. per term (exclusive of tuition).

*Fuller information can be obtained either through the University Bureau or Local Advisory Committee in India and the Secretary to the High Commissioner for India (Education Department), London, or direct from the Secretary, Froebel Educational Institute, Grove House, Rochampton Lane, S.W. 15.*

## (C) Montessori.

### THE MONTESSORI TRAINING COLLEGE.

The teaching follows a syllabus specially devised by Dr. Montessori, in accordance with ideals and conceptions of educational methods for older students recently originated by her. It is given by a group of competent instructors acting under her direction.

For those not holding a University degree or equivalent training college certificate there are two distinct three-year courses (one of which has several variants) and a two-year course. For other older students who have already had a University education or equivalent, there is the one-year course. In special circumstances the College plans subsidiary and special courses to meet the needs of individual students. No diploma or certificate is given except to students completing one of the standard courses.

Fees for the two- and three-year courses, £52 10s. to £68 5s. One-year course, minimum, £10 10s. per term.

*Fuller information can be obtained either through the University Bureau or Local Advisory Committee in India and the Secretary to the High Commissioner for India (Education Department), London, or direct from the Secretary, The Montessori Training College, Studio House, Rosslyn Hill, Hampstead, N.W. 3.*

### (D) Various Colleges.

THE TEACHER TRAINING DEPARTMENT, DARTINGTON HALL.

A Training Department for Nursery School, Kindergarten and Junior School teachers was opened in September 1932. The regular course has been planned on a two-years' basis, but there is also a one-year's course for those who—

(a) wish to teach only in private schools not recognised by the Board;

(b) have a University degree;

(c) have already taken an approved course of training and had at least three years of teaching experience.

In addition there will be a two or three years' course for those wishing to take Froebel training.

In certain cases, applications will be considered from—

(a) students without any qualifying examinations who wish to specialise in one branch only of the training. Short courses in Dietetics, &c. will be arranged for School Matrons, parents, or others interested in any aspect of the work;

(b) students wanting a Refresher Course.

All the fees are payable each term in advance.

Fees for resident students, £120 per annum.

Fees for day students, £50 per annum.

*Fuller information can be obtained either through the University Bureau or Local Advisory Committee in India and the Secretary to the High Commissioner for India (Education Department), London, or direct from the Director of the Training Department, Dartington Hall, Totnes, South Devon.*

### Whitelands College.

This College is a residential Women Teachers' Training College which provides courses of training for those who wish to teach (a) in Infants' Schools, (b) in Junior Schools, and (c) in Senior Schools. At the conclusion of the course, which lasts normally for two years, the students enter for the examination for the Teachers' Certificate of the London University. A third year may be spent in various university diplomas, including English History, Geography, Biology, Psychology, Music, Arts and Handicraft and Physical Training.

One-year courses are offered to (a) certificated teachers, the course includes lectures and classes in the College and observation in schools, and (b) to graduates and others specially qualified for the one-year course leading to the London University Teachers' Certificate.



The fee for resident students is £50 a year (third year resident students £40), but an additional amount of approximately 14 guineas will be necessary for books and stationery visits to schools and College subscriptions.

This College offers a resident one-year course for women who have passed the Degree Examination in Arts and Science of an approved University in India, including Educational Psychology, Principles and Methods of Teaching, School Hygiene, especially in relation to tropical countries, Physical Training, and Arts and Crafts based on Indian examples and considered in relation to general school education; and students may enter for the London University Teachers' Certificate or for the London University Teachers' Diploma. The fee is £100 resident for the three-term course, together with expenses for books, stationery, diploma fees, &c.

*Application for these courses should be made either through the University Bureau or Local Advisory Committees in England and the High Commissioner for India, Education Department, or direct from the Principal, Whitelands College, Putney Heath, London, S.W. 5.*

## PHYSICAL TRAINING.

Physical Training forms part of the normal curriculum of the Teachers Training Colleges, but specialised courses, usually of three years' duration, are provided at the following Colleges:—

### For Men :

Training Centre, Jordanhill, Glasgow, W. 3, Scotland.

Though the normal course is of three years' duration, the period of training in certain cases may be reduced. The fees are £50 per session, in addition to £25 for cost of outfit and books.

Carnegie Hall, Physical Training College for Men, Beckett Park, Leeds.

The College provides one year's full-time instruction for men already qualified as teachers generally and who desire to teach with special reference to Physical Training.

It will also provide a year's course in general professional work with special emphasis on Physical Training, for graduates or students in training.

The fee for the one-year course is £100.

### For Women :

Chelsea Physical Training College, Chelsea Polytechnic, Manresa Road, London, S.W. 3. *Fee.*—£51 per annum for 3-year course.

Bergmann Osterberg Physical Training College, Dartford Heath, Kent. *Fee.*—£165 per annum for 3-year course.

Anstey Physical Training College, Erdington, near Birmingham, Warwickshire. *Fee.*—£115 10s. per annum for 3-year course.

Bedford Physical Training College, Bedford, Beds. *Fee.*—£165 per annum for 3-year course.

Dunfermline College of Hygiene and Physical Education, Dunfermline, Firth, Scotland. *Fee.*—£95 per annum for 3-year course.

A one-year course of Physical Training is provided by Whitelands Training College, West Hill, Putney, S.W. 15, in conjunction with the Chelsea College mentioned above, for women who have completed a two-year course of general training at an ordinary training college. This course offers a limited training for teachers who wish to specialise in Physical Training in senior and continuation schools for girls. *Fee.*—£110.

### UNIVERSITY OF LONDON.

A diploma in Theory and Practice of Physical Education is now granted by the University of London to those candidates who have successfully completed a three-year course at an institution approved by the University. At the moment the approved institutions are the Chelsea Physical Training College and the Anstey Physical Training College.

In addition to the above courses there are held in August of each year a number of vacation courses.

## VETERINARY SCIENCE.

The professional qualification is that of Membership of the Royal College of Veterinary Surgeons.

Degrees are also awarded at the Universities of London, Edinburgh and Liverpool, but these degrees should be taken concurrently with the Diploma Examination of the Royal College, as they do not by themselves confer the professional qualification to practise

### The Diploma of the Royal College of Veterinary Surgeons.

Every candidate for the Diploma must pass a recognised examination in General Education. The examinations recognised for this purpose are :—

(1) The Final Examination for the Degrees in Arts, Science, or Medicine of any University in the United Kingdom or of the British Dominions.

(2) The Matriculation Examination in the Faculties of Arts or Science of, and all examinations accepted in lieu thereof, by any University in Great Britain or Ireland.

(3) The following examinations are also accepted provided the required subjects are included, viz. : (i) English, (ii) Mathematics (Arithmetic, Algebra and Geometry); (iii) one of the following languages: Latin, Greek, French, German or any other approved modern language (Grammar, translation into English from unprescribed books, translation from English); (iv) a second language selected from (iii) or one of the following subjects, viz. : Higher Mathematics, Experimental Mechanics, Chemistry, Physical Geography, Physics, Botany, Geology, Science—

#### *University of Calcutta.*

First Examination in Science  
Intermediate or Final B A or B Sc  
Preliminary Scientific Examination.

#### *University of Madras.*

First Examination in Science.  
Intermediate Examination.

#### *University of Bombay.*

Preliminary Scientific Examination or Previous Examination.

#### *University of the Punjab.*

Intermediate Examination in Science and Medicine.

#### *University of Patna.*

B.Sc. Degree.

#### *Benares Hindu University.*

B Sc. Degree.

*University of Allahabad.*

Intermediate Examination in Science.

*United Provinces (India) Education Department.*

School Leaving Certificate.

*Entrance Examination for Sandhurst held in India.*

Pass Certificate, or an Intermediate Certificate granted by a recognised Board of Intermediate Education in India.

No certificate from the above Indian Universities is accepted unless it shows that the Examination has been conducted by or under the authority of the Body granting it, includes all the required subjects, and states that all the subjects of examination have been passed at not more than two examinations.

In the case of natives of India or other Oriental countries whose vernacular is other than English, an examination in a classical Oriental language (e.g. Sanskrit, Arabic) or in Urdu, Modern Persian, or Pushtu, may be accepted instead of an examination in Latin.

Intending students who do not already possess one of the before-mentioned Certificates can present themselves for one of the examinations which will be conducted by the College of Preceptors, London, at which Certificates satisfying the requirements of the Royal College of Veterinary Surgeons can be obtained. They can also arrange with the College of Preceptors to examine them in any single required subject which may not already be included in their examination. It must be noted, however, that students who require to take such an examination cannot be admitted to the Veterinary Course until the certificate in the required subject has been obtained.

Intending students are earnestly advised to ascertain from the Secretary of the Royal College of Veterinary Surgeons, 10, Red Lion Square, London, W.C. 1, that their educational certificates and qualifications comply with the above requirements before leaving India. Otherwise they may be compelled to spend some months in passing examinations before they can commence their professional training.

*Course.*—The course lasts five years and students must pass five examinations.

(1) In order to qualify for the *First Examination* a student must study the prescribed subjects for one full Session, after having passed the Examination in General Knowledge. The subjects of this examination are :—

(1) Chemistry and Physics ;

(2) Biology :—Zoology and Botany.

(2) The *Second Examination* can be taken after studying the prescribed subjects for one full Session after passing the *First Examination*. The subjects of this Examination are .—

- (1) Physiology, Biochemistry.
- (2) Histology, Embryology.
- (3) Animal Management (after two sessions' instruction)

(3) The *Third Examination* can be taken after studying the prescribed subjects during one full Session and after passing the *Second Examination*. The subjects of this Examination are —

- (1) Anatomy.
- (2) Pharmacology and Therapeutics; Toxicology; Practical Pharmacy.
- (3) Veterinary Hygiene, Dietetics and Animal Husbandry

(4) The *Fourth Examination* can be taken after studying the prescribed subjects during one full Session and after passing the *Third Examination*. The subjects of this Examination are :—

- (1) Veterinary Pathology, Methods of Clinical Pathology
- (2) Veterinary Parasitology (including Protozoology, Helminthology and Entomology).

(5) The *Fifth Examination* can be taken after studying the prescribed subjects during two Sessions (one complete Session of which is after passing the *Fourth Examination*). The subjects of this Examination are :—

- (1) A.—Veterinary Medicine (including Clinical Parasitology),  
Special Therapeutics.  
B.—Meat Inspection
- (2) A.—Veterinary Surgery (including Clinical and Operative Surgery; Surgical and Applied Anatomy, Examinations for Soundness, Pathological Shoeing).  
B.—Obstetrics  
C.—Jurisprudence

The Examinations are held in July in every year, and, when required, in December.

The fee for Examination is £6 6s. Re-examination in the same class, £6 6s. For students referred in one subject, £4 4s.

Students are advised to spend their vacations in practical experience with a practising Veterinary Surgeon, for which a fee of approximately £2 2s. per week would be required.

*Exemptions.*—Exemptions from the First Year's Course can be obtained as follows .—

Students who have obtained a Degree in Arts, Science, Agriculture or Medicine of any University in the United Kingdom, or the Diploma of Licentiate of the Royal Colleges of Surgeons and of the Royal Colleges of Physicians, and who at the respective examinations for such Degree or Diploma have passed in Chemistry and Physics, and also in Biology,

Zoology and Botany, are exempted from attendance at the First Year's Course of Lectures and from the examination at the end of that year.

A similar concession is granted to matriculated students who produce evidence of having passed an approved examination in Chemistry (organic and inorganic) and Physics, and also in Biology (Botany and Zoology) as part of their course for a degree in Arts, Science or Medicine of a British University.

Candidates possessing similar qualifications, granted by an Indian University, shall submit their certificates to the Examination Committee, who shall report to the Council on the eligibility of the applicant for exemption or otherwise.

Students must pass the Preliminary Examination not less than one session before presenting themselves for the First Professional Examination, and must produce a certificate to that effect to the Secretary of the Royal Veterinary Surgeons not less than three months before the *First Examination*.

It should be noted that the course of study for this Diploma does not take place at the Royal College of Veterinary Surgeons, which is an administrative examining body, but at one of the affiliated Colleges:—

The Royal Veterinary College, Camden Town, London.

The Veterinary School, The University, Liverpool.

The Royal (Dick) Veterinary College, Edinburgh.

The Veterinary College, Glasgow.

The Veterinary College of Ireland, Dublin.

#### UNIVERSITY OF LONDON.

Every student is required to pass the Matriculation Examination or to obtain exemption therefrom before commencing his course for the B.Sc. Degree in Veterinary Science (*see* pages 19-25).

The prescribed courses of study for five years for the Degree must be attended, and the examinations to be passed are as follows:—

First Examination (Inorganic Chemistry, General Biology and Physics, including Mechanics).—To be taken at the end of the first year of study.

Second Examination, Part I (Organic Chemistry).—To be taken at the end of the second year of study.

Second Examination, Part II (Veterinary Anatomy and Veterinary Physiology).—To be taken at the end of the third year of study.

Final Examination (Veterinary Pathology and Veterinary Hygiene).—To be taken at the end of the fifth year of study.

For fees and exemptions, *see* page 75.

It is possible also to take this examination as an "external" student, i.e. without attending any of the prescribed courses, but students will have to produce evidence that they have pursued similar studies.

#### THE ROYAL VETERINARY COLLEGE, LONDON.

The Educational Fee for the five years' course for the Diploma of the Royal College of Veterinary Surgeons (M.R.C.V.S.) is 125 guineas, and may be paid in five instalments of 25 guineas each. In addition, there are various small subscriptions. The annual payments are as follows —

First payment, £29 18s.

Second payment, £30 17s. 6d

Third payment, £28 17s. 6d.

Fourth payment, £29 7s. 6d.

Fifth payment, £28 17s. 6d.

Students can also study at this school for the BSc Degree in Veterinary Science of the University of London (*see above*), and are required to pay additional fees, amounting in all to £21.

The College Session extends from October until July

*Fuller information can be obtained either through the University Bureau or Local Advisory Committee in India and the Secretary to the High Commissioner for India (Education Department), London, or direct from the Dean, Royal Veterinary College, Great College Street, Camden Town, London, N.W. 1.*

#### UNIVERSITY OF LIVERPOOL.

At Liverpool University the student can pursue the course for the Diploma of the Royal College of Veterinary Surgeons after satisfying the conditions of the Preliminary Examination laid down by the Royal College. The University also confers the Degree of B.V.Sc. (Bachelor of Veterinary Science). This can be taken simultaneously with the Diploma Course, but a candidate must (a) have passed the Joint Board Matriculation Examination or such examination as may be recognised for this purpose by the Joint Matriculation Board; (b) have pursued University Courses for not less than five years subsequent to the date of Matriculation, and have passed five examinations prescribed.

*Fees.*—The course of study for the M.R.C.V.S. is £150, payable in five annual instalments of £30 each.

For the Degree of B.V.Sc. the fee is £175, payable in five annual instalments of £35 each.

The Regulations for the B.V.Sc. are under revision.

THE ROYAL (DICK) VETERINARY COLLEGE, EDINBURGH (affiliated to the University of Edinburgh).

The Course for the Diploma of Membership of the Royal College of Veterinary Surgeons can be pursued here, subject to the conditions already laid down. The fee for the full course is £26 5s. per annum. In addition there is a Matriculation fee of 10s. 6d. and an Athletic Club fee of 10s., both payable annually.

The University of Edinburgh also confers a Degree in Veterinary Science—Bachelor of Science in Veterinary Science. The course can be taken simultaneously with the course for the Diploma, but students must have passed the Preliminary Examination of the Scottish Universities Entrance Board, or obtain exemption therefrom. (See pages 30-31.) A candidate cannot obtain the Degree unless he has secured the Diploma of the Royal College of Veterinary Surgeons, the course for which extends over not less than five academic years. (See pages 401-404.) In addition, certain classes must be attended over and above those prescribed for the Diploma work.

The Examination for the Degree of B.Sc. is divided into three divisions, the examinations for which must be taken in turn.

Courses of instruction are arranged for the Diploma in Veterinary State Medicine instituted by the Royal College of Veterinary Surgeons (see page 408), and the Diploma in Tropical Veterinary Medicine granted by the University of Edinburgh.

There is also a Degree of D.Sc. in Veterinary Science open to graduates who have held the Degree of Bachelor of Science of the University of Edinburgh for three years. Candidates must present a thesis, showing a record of original research.

*Fuller information can be obtained either through the University Bureau or Local Advisory Committee in India and the High Commissioner for India (Education Department), London, or direct from the Principal, Royal (Dick) Veterinary College, Edinburgh.*

#### GLASGOW—VETERINARY COLLEGE.

This College provides courses—

(a) For the Diploma of Membership of the Royal College of Veterinary Surgeons in accordance with the rules laid down by the Royal College (see pages 401-404).

*Fees.*—£31 10s. per annum, plus 5s. per annum to the Students' Representative Council.

(b) For the External Degree of B.Sc. in Veterinary Science awarded at the University of London.

Candidates for this Degree must pass the London University Matriculation Examination. (See pages 19-25.)

The fees for this course amount to £10 10s. per annum in addition to the fees for the M.R.C.V.S. course, which is



taken concurrently. There is also a fee of £4 15s. payable to the Royal Technical College, Glasgow, for the First Year Physics course.

(c) For the Diploma in Veterinary State Medicine (D.V.S.M.) restricted to holders of the Membership Diploma.

*Fee.*—£21. Chemical laboratory fee, £1 1s

Women students are admitted to all three courses.

(Examination fees due to the R.C.V.S. and the University of London are omitted, as also the Annual Registration fee due to the R.C.V.S. from holders of the Membership Diploma.)

*Fuller information can be obtained either through the University Bureau or Local Advisory Committee in India and the Secretary to the High Commissioner for India (Education Department), London, or direct from the Principal, Glasgow Veterinary College, 83, Buccleuch Street, Glasgow, C. 3*

#### VETERINARY COLLEGE OF IRELAND, DUBLIN.

This College also provides courses for the Diploma of Membership of the Royal College of Veterinary Surgeons under the conditions laid down by that Body.

The fee is £21 per Session, with an entrance fee of £1 1s.

An extra fee of £1 1s. is payable by students in the second year for lectures in Bio-Chemistry, and there is also a fee of £1 annually for the Students' Union.

There are no resident students.

*Fuller information can be obtained either through the University Bureau or Local Advisory Committee in India and the High Commissioner for India (Education Department), London, or direct from the Principal, Royal Veterinary College of Ireland, Shelbourne Road, Ballsbridge, Dublin.*

#### Fellowship of the Royal College of Veterinary Surgeons.

A Member of the Royal College of Veterinary Surgeons, who has been engaged in the practice of his profession for two years or upwards, may present himself for examination for the Diploma of Fellowship (F.R.C.V.S.).

(1) A thesis will require to be submitted on the results of original research or observation, on one of the following subjects:—

- (i) Anatomy, including Surgical Anatomy;
- (ii) Physiology;
- (iii) Pathology, including Bacteriology and Protozoology;
- (iv) Helminthology and Entomology;
- (v) Pharmacology and Toxicology;
- (vi) Medicine;
- (vii) Tropical Medicine;
- (viii) Surgery;
- (ix) Sanitary Science and Administration (open only to holders of the Diploma in Veterinary State Medicine).

(2) The candidate will be examined orally on the subject-matter of his thesis, and may, at the discretion of the

Examiners, be examined practically or by written papers in that branch of Veterinary Science to which the subject of the thesis belongs.

The Examination fee for the Fellowship is £15 15s.

*For entry form and full particulars apply to the Secretary of the Royal College of Veterinary Surgeons, 10, Red Lion Square, London, W.C. 1.*

### Diploma in Veterinary State Medicine.

The Royal College of Veterinary Surgeons awards a Diploma in Veterinary State Medicine (D.V.S.M.) under the following regulations:—

(1) The *qualification period* will be 12 months after membership, including at least—

(i) Twenty weeks' attendance at approved courses of instruction on the following subjects at an affiliated school:—

I—(a) Epizootiology,

(b) Veterinary Bacteriology and Protozoology;

II—(a) Veterinary Hygiene and Toxicology,

(b) Meat Inspection and Dairy and Milk Inspection.

(ii) Ten weeks' Laboratory Work in Applied Chemistry.

(iii) Fifteen weeks' practical instruction in Meat and Milk Inspection, Hygiene of Byres, Stables, and Markets under Veterinary Inspectors recognised for that purpose by the Royal College of Veterinary Surgeons.

(2) The *Examination* will be written, oral and practical on the following:—

I—(a) Epizootiology,

(b) Veterinary Bacteriology and Protozoology;

II—(a) Veterinary Hygiene and Toxicology,

(b) Meat Inspection, Dairy and Milk Inspection, Administration and Reporting.

(3) Examination Fee, £5 5s. Registration Fee, £2 2s.

### MANCHESTER.

A Diploma in Veterinary State Medicine is awarded by the University of Manchester.

Candidates, before entering the examination, must produce satisfactory evidence that they hold the Membership of the Royal College of Veterinary Surgeons.

All candidates for the Diploma are required to attend the prescribed lectures and laboratory courses in the University.

Candidates, before entering for the first part of the examination, must present evidence of satisfactory attendance during one academic year on the prescribed lecture and laboratory courses in:—

(a) Bacteriology and Parasitology (including Entomology), especially in their relation to the diseases of the lower animals,

and to those diseases of man which may be transmitted by the lower animals ;

(b) Chemistry and Physics in relation to Veterinary Hygiene ;

(c) Meteorology and Climatology in relation to Veterinary Hygiene.

Candidates, before entering for the second part of the examination, must present certificates :—

(a) Of having satisfactorily attended the prescribed lectures in the following subjects :—

(i) The Principles of Veterinary Hygiene, Sanitation and Dietics ;

(ii) Epizootiology ;

(iii) Principles of Meat and Milk Inspection ;

(iv) Sanitary Law and Administration as it affects Veterinary Medicine.

(b) That, after obtaining the membership of the R.C.V.S., they have, during at least six months, been diligently engaged in acquiring a knowledge of the duties of veterinary inspection under a Veterinary Surgeon (holding a public appointment) to be approved for that purpose by the University.

The examination is in two parts, and is written, oral, and practical.

Candidates may enter for Part I and Part II separately or at the same time, provided that no candidate be admitted to Part II unless he has already passed in Part I.

The examination is held twice yearly, in June and October.

	£	s.	d.
Fee for the lectures and practical courses given in the laboratory for D.V.S.M., Parts I and II	21	0	0
Fee for Practical Instruction in duties of Veterinary Inspection, under an approved Veterinary Surgeon, for Part II. Nominal fee (to be paid direct to the Veterinary Inspector concerned)	-	-	-
	10	10	0
Examination fee for each part of the examination	6	6	0
Ditto re-examination in the same part	4	4	0

### Diploma in Tropical Veterinary Medicine.

#### UNIVERSITY OF EDINBURGH.

The University grants a Diploma in Tropical Veterinary Medicine. The course is given during the Autumn and Spring Terms, beginning in October, and the examinations are held in December and March.

Candidates must hold an approved Veterinary qualification registrable by the Royal College of Veterinary Surgeons and must attend courses in Entomology and Parasitology, Bacteriology, Personal Hygiene in the Tropics, Food Production (Meat and Milk), Feeding of Animals in the Tropics, Breeding of Animals, Epizootiology.

The fee for the course is £31 10s. and the Examination fee £6 6s.

## SCHOOLS.

### Boys.

A Preparatory School in this country usually accepts a boy for admission at about the age of eight and prepares him for the entrance examination of one of the Public Schools. This examination generally includes papers in Latin and French, and special attention is paid to these subjects during the boy's course at the School.

The school year consists of three terms of approximately 12 weeks each, with four weeks holidays at Christmas, four weeks at Easter and eight weeks during the summer.

Expenses at a Preparatory School, including board, residence, tuition and all extras, vary from £50 to £80 per term, according to the type of school. At a Public School the minimum terminal expenses are about the same, though at certain of the larger schools the charges may be considerably more. It should, however, be noted that excellent and cheaper facilities are provided by the Public Secondary and Grammar Schools throughout the country. There are also excellent Day Schools where the tuition fees vary from £12 to £20 per term; in such a case the boy usually resides with his parents or with a suitable guardian.

Application for admission should include full particulars of the previous education of the pupil and at least two certificates of character. In the case of the larger Public Schools, where there is usually a long waiting list, the application should be sent at least a year before the proposed date of admission.

### GIRLS.

There are excellent Girls' Schools in this country which provide the necessary preparation for University entrance examinations as well as for the various professions. The expenses are approximately the same as at Public Schools for boys.

*Full particulars regarding any Schools in this country may be obtained from the Secretary to the High Commissioner for India (Education Department), London, W.C. 2, either direct or through the University Bureau or Local Advisory Committee in India.*

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SECTION VIII

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GOVERNMENT SERVICES

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### IMPORTANT NOTE.

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These extracts from the various Regulations relate merely to age limits and educational qualifications for Government services, and are intended only as a summary of the general conditions under which appointments to the various services are made. Students should obtain from the Public Service Commission or other relevant Department the full Regulations of the Service for which they wish to apply, as these alone can be accepted as authoritative.

It may be added that in almost every case medical examination and personal interview are required.

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## Recruitment through the Public Service Commission, India.

1. Indian Civil Service (examination in India) (a).
2. Indian Audit and Accounts Service (a).
3. Imperial Customs Service (a).
4. Indian Railway Accounts Service (a).
5. Military Accounts Department (a).
6. Survey of India (Class II) (a).
7. Postal Superintendents, Class II (a).
8. Indian Police (a).
9. Indian Forest Service (a) } Recruitment at present sus-
10. Indian Service of Engineers (a) } pended.
11. Indian Railway Service of Engineers (a).
12. Superior Telegraph Engineering and Wireless Branches of the Indian Posts and Telegraphs Department (a).
13. Transportation (Traffic) and Commercial Department of the Superior Revenue Establishment of State Railways (a).
14. Indian Military Academy, Dehra Dun (a).
15. Royal Air Force College, Cranwell (a) (*see* page 417).
16. Royal Indian Navy (a).
17. Ministerial Service of the Government of India Secretariat and Attached Offices (a).
18. District Medical Officers on State Railways (b).
19. Leadsman Apprentices in the Bengal Pilot Service (b)
20. Special Class Apprentices for the Mechanical Engineering and Transportation (Power) and Electrical Engineering Departments of the Superior Revenue Establishment of State Railways (b).
21. Apprentices for training in Ordnance Factories in India under the Army Department (b).
22. Probationary Superintendents in the Northern India Salt Revenue Service, Class II (b).

Recruitment to the above Services is made through the Public Service Commission either by Competitive Examination or selection, and any student proposing to proceed to England with a view to qualifying for one of these Services should first obtain full particulars regarding age limits, educational qualifications and other conditions required for the particular Service or Services in which he is interested. Students are warned, however, that these conditions are liable to change from time to time.

Pamphlets containing the regulations, syllabus, time-table, question papers, and table of results of each of the public competitive examinations conducted by the Public Service Commission are on sale by the Manager of Publications, Civil Lines, Delhi, and may be obtained at any of the Agents for the sale of Government publications. These pamphlets relate to the examinations last held.

The Commission are, as a rule, unable to supply any further information with regard to subsequent examinations until the intention

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(a) Competitive Examination.

(b) These Services are recruited by selection. The Commission also recruits by selection for other services and posts under the Government of India and occasionally for posts under the Local Governments, but it is not possible to supply either a list of such services and posts or copies of rules and regulations relating thereto.

to hold such an examination is notified in the Government of India Gazette, &c., when copies of the regulations, application forms, &c., relating to all examinations other than the Ministerial Service examinations may be obtained from the Local Government or Administration or Durbar concerned. Requisitions for papers relating to the Ministerial Service examinations should be addressed to the Public Service Commission. It is always possible that the conditions may differ from those obtaining at the last examination.

In the case of recruitment by selection, when it is decided to make any such recruitment by the Public Service Commission, the fact will be advertised in the Government of India Gazette, &c., and copies of the rules and conditions prescribed for the particular vacancies concerned will then be supplied to applicants.

*The Public Service Commission do not register the names of candidates in advance.*

## **Agricultural, Educational, Engineering, Forest, Medical and Veterinary Services.**

For information regarding the conditions of appointment to the Provincial Services enquiries should be addressed to the respective Local Governments.

### **Indian Civil Service.**

(LONDON EXAMINATION.)

#### **Extracts from the Regulations.**

(See "Important Note," page 412.)

1. An examination for admission to the Indian Civil Service, open to all qualified persons, will be held in London in July and August of each year for such number of appointments to that Service as the Secretary of State may on each occasion determine. The date of the examination will be announced beforehand by the Civil Service Commissioners.

2. A candidate must be a male and either—

(a) a British subject whose father (if alive) is a British subject or a subject of a State in India or (if dead) was at the time of his death either a British subject or a subject of a State in India or a person in the permanent service of the Crown or a person who had retired from that Service; or

(b) a ruler or a subject of a State in India in respect of whom the Governor-General in Council has made a declaration under section 96A of the Government of India Act.

Provided that in the case of a male British subject the requirements of this rule may be waived by the Secretary of State in Council if he is satisfied that their observance would occasion exceptional hardship and the candidate is so closely connected by ancestry or upbringing with His Majesty's dominions as to justify special treatment.

3. A candidate must have attained the age of 21, and must not have attained the age of 24 on the first day of August of the year in which the examination is held.



4. A candidate who is a native of India must obtain a certificate of age and nationality issued in accordance with such instructions as the Governor-General in Council may from time to time, prescribe,\* and signed, should he be a resident in British India, by the Secretary to Government of the Province, or the Commissioner of the Division within which his family resides, or, should he reside in a Native State, by the highest Political Officer accredited to the State in which his family resides.

9. The examination will include the following subjects.† The numerical value is shown against each subject:—

SECTION A.—Candidates are to take up all the subjects in this section.

	Marks.		Marks.
1. ESSAY ... ..	100	4. AUXILIARY LANGUAGE ...	100
2. ENGLISH ... ..	100	5. VIVA VOCE ... ..	300
3. PRESENT DAY ... ..	100		

SECTION B.—OPTIONAL SUBJECTS.—Candidates are allowed to take up subjects in this section up to a total of 1,000 marks.

#### *History.*

6. British History, Period 1 ...	200	8. European History, either Period 1 or Period 2 or Period 3 ... ..	200
7. British History, Period 2 ...	200	9. European History, Period 4...	200

#### *Economics, Politics, Law and Philosophy.*

10. General Economics ... ..	200	17. Roman Law ... ..	100
11. Economic History ... ..	100	18. International Law ... ..	100
12. Public Economics ... ..	100	19. Moral Philosophy ... ..	100
13. Political Theory ... ..	100	20. Metaphysics ... ..	100
14. Political Organisation ... ..	100	21. Logic ... ..	100
15. Constitutional Law ... ..	100	22. Psychology ... ..	100
16. Private Law ... ..	300	23. Experimental Psychology ...	100

#### *Mathematics and Science.*

24. Lower Pure Mathematics ...	200	37. Higher Geology ... ..	200
25. Higher Pure Mathematics ...	200	38. Lower Physiology ... ..	200
26. Lower Applied Mathematics ...	200	39. Higher Physiology ... ..	200
27. Higher Applied Mathematics ...	200	40. Lower Zoology ... ..	200
28. Astronomy ... ..	200	41. Higher Zoology ... ..	200
29. Statistics ... ..	100	42. Engineering ... ..	400
30. Lower Chemistry ... ..	200	43. Geography ... ..	400
31. Higher Chemistry ... ..	200	44. General Anthropology ... ..	100
32. Lower Physics ... ..	200	45. Special Anthropology consist- ing of either Social Anthro- pology or Physical Anthro- pology ... ..	100
33. Higher Physics ... ..	200	46. Agriculture ... ..	200
34. Lower Botany ... ..	200		
35. Higher Botany ... ..	200		
36. Lower Geology ... ..	200		

\* Candidates should be careful to see that the wording of this certificate is strictly in accordance with the appropriate form laid down in the instructions published in the Government of India Home Department Notification No. F. 266/30, Ests., dated the 21st February 1931.

† A Syllabus defining in general terms the character of the examination in the various subjects can be obtained from the Civil Service Commission, 6, Burlington Gardens, London, W. 1.

*English Literature, Languages and Civilizations.*

	Marks.		Marks.
47. English Literature, Period 1	200	57. Spanish or Italian Language	200
48. English Literature, Period 2	200	58. Spanish or Italian Civilisation	200
49. Latin Language ... ..	200	59. Russian Language ... ..	200
50. Roman Civilization ... ..	200	60. Russian Civilization ... ..	200
51. Greek Language ... ..	200	61. Arabic Language ... ..	200
52. Greek Civilization ... ..	200	62. Arabic Civilization ... ..	200
53. French Language ... ..	200	63. Persian Language ... ..	200
54. French Civilization ... ..	200	64. Persian Civilization ... ..	200
55. German Language ... ..	200	65. Sanskrit Language ... ..	200
56. German Civilization...	200	66. Sanskrit Civilization ... ..	200

10. The auxiliary language in Section A will be tested by means of translation from the language. The following languages may be offered: French, German, Italian, Spanish, Portuguese, Dutch, Norwegian, Swedish, Danish, Russian, Latin, Ancient Greek.

Instead of an auxiliary language a candidate whose mother tongue is an Indian language or who up to the stage of University training has been educated exclusively in India may offer as Subject 5 either General Anthropology or Special Anthropology.

No candidate may offer any language or General Anthropology or Special Anthropology twice in the examination.

Only a candidate who takes two modern languages in section B may offer Latin or Ancient Greek as an auxiliary language.

12. In subjects 49 to 66 the civilization subject associated with a language can only be taken by candidates who offer the language itself for examination.\*

13. A candidate desiring to offer subject 23 or any of the subjects 30 to 42 must produce evidence satisfactory to the Commissioners of laboratory training in an institution of university rank. For Astronomy (28), Geography (43), the Physical Anthropology branch of Special Anthropology (45), and Agriculture (46), other equivalent training will be required. There will be no laboratory test as part of the examination.

14. From the marks assigned to candidates in each subject such deduction will be made as the Civil Service Commissioners may deem necessary in order to secure that no credit be allowed for merely superficial knowledge.

15. Moreover, if a candidate's handwriting is not easily legible, a further deduction will, on that account, be made from the total marks otherwise accruing to him.†

Applicants desirous to be admitted to the Examination must apply on prescribed forms, which may be obtained from THE SECRETARY, CIVIL SERVICE COMMISSION, 6, BURLINGTON GARDENS, LONDON, W. 1. These forms must be completed and returned to the Secretary (C. Room 19) in time for delivery on or before 8th May in the year in which the Examination is to be held. No application form received after that date will be accepted.

\* e.g., a candidate desiring to offer subject No. 51 (Roman Civilization) must also offer subject No. 50 (Latin Language).

† It is notified for general information that the number of marks deducted for bad handwriting may be considerable.

## Indian Army, Indian Air Force and Royal Indian Navy.

Recruitment to these services now takes place in India only, and for full information applicants should obtain the provisional regulations, which may be purchased from the Manager of Publications, Civil Lines, Delhi. These regulations are, however, liable to change from time to time.

### Indian Medical Service.

#### Extracts from the Memorandum.

(See "Important Note," page 412.)

Since the open competitive examination held in July 1915 for admission to the Indian Medical Service no similar examination has been held during the war, but such appointments as were required to meet the absolutely indispensable needs of the Service have been made by nomination by the Secretary of State. This method of recruitment will continue to be in force until further notice. To assist him in making appointments, the Secretary of State for India has appointed a Selection Committee, who will summon and interview such applicants as may appear to be *prima facie* suitable, and make recommendations for appointment. A similar Committee has been appointed in India to investigate applications and to forward recommendations to the Secretary of State. Applications from Europeans resident in Europe should be addressed to THE SECRETARY, MILITARY DEPARTMENT, INDIA OFFICE, WHITEHALL, LONDON, S.W. 1. Other applications should be addressed to THE DIRECTOR GENERAL, INDIAN MEDICAL SERVICE, SIMLA (or DELHI), INDIA. The applications of all Indian candidates are considered by the Selection Board in India, and no useful purpose is therefore served by such candidates presenting themselves for interview before the Selection Board in London. Applications from Indians in this country to appear before the London Selection Board will only be entertained in cases where the Board is of opinion that the circumstances are exceptional.

All correspondence regarding applications should be marked "Medical Recruitment" on the top left-hand corner of the envelope.

A candidate must be under 32 years of age at the time of application, and must possess a qualification registered in Great Britain and Northern Ireland under the Medical Acts in force at the time of his appointment. He may be married or unmarried.

## Countess of Dufferin's Fund, India.

### Women's Medical Service.

Admission to this Service is made by selection. Vacancies are advertised in medical papers in India and England—all appointments are made finally by the Dufferin Fund Council in India.

Candidates for appointment in the Women's Medical Service should hold good medical qualifications, and should also, since qualification, have held resident posts in good general hospitals and have had special experience in gynaecological and obstetrical work. Other things being equal, preference will be given to a candidate available in India.

Applicants residing in India should send in their applications on the specified form to THE CHIEF MEDICAL OFFICER, COUNTESS OF DUFFERIN'S FUND, RED CROSS BUILDING, NEW DELHI, INDIA.

Applicants residing out of India should apply to THE HON. SECRETARY, DUFFERIN COMMITTEE, INDIA OFFICE, LONDON, S.W. 1, or to THE MEDICAL ADVISER TO THE UNITED KINGDOM BRANCH OF THE DUFFERIN ASSOCIATION, c/o THE HIGH COMMISSIONER FOR INDIA, INDIA HOUSE, ALDWYCH, W.C. 2.

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